

The illustration features a series of tall, fluted classical columns on the left side, receding into the distance. In the background, a domed building, likely a capitol, is visible through a series of tall, narrow trees. The foreground is filled with dark, leafy bushes. The entire scene is set against a dark background, with the columns and the central text box highlighted in a lighter color.

**UNION
METAL
COLUMNS
and
PERGOLAS**

Ancient Beauty for Modern Buildings



The glory of Greek and Roman architecture and the crowning beauty of homes and public buildings in our own Colonial days were made possible by the tasteful and generous use of classical columns.

Today Union Metal furnishes architects, contractors and owners these same handsome designs in enduring pressed steel at very reasonable cost.

THE UNION METAL MANUFACTURING CO.
GENERAL OFFICES and FACTORY CANTON, OHIO

— BRANCHES —
NEW YORK - CHICAGO - PHILADELPHIA - LOS ANGELES - ST. LOUIS - JACKSONVILLE

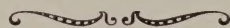
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Ancient Beauty for Modern Buildings

FOR thousands of years the world's famous architects and designers have found nothing so beautiful and worthy in building as the simple, classical column.

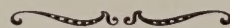
The beauty of these fluted columns has been made available for use on every kind of structure from the modest cottage to large public buildings, by the Union Metal principle of pressed steel column construction.



Beauty That Lasts a Lifetime

BEAUTIFUL columns on a building are the first feature to catch the eye and the one that is longest remembered. How important then that they should be made of enduring material that will not split, rot, and open up at the joints and thus mar the entire structure.

The beauty of Union Metal Columns is more than skin deep. Under the paint is a permanent metal shaft that will be just as sound and beautiful in ten, twenty, yes, thirty years, as it was the day the columns were put in place.



The Freer Use of Columns

MANY architects who fully appreciate the architectural value of columns have not used them freely in their work because of the practical difficulties in obtaining columns correct in design, permanent in construction and reasonable in cost. These three limitations are removed by Union Metal Columns—"The Ones That Last a Lifetime."

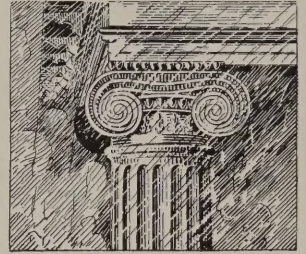
In using them architects, contractors and owners realize that their good work will be protected against the disfiguring effects of time and that the columns, the principal decorative feature of the building, will be as permanent and durable as the brick in the walls.

FOR BEAUTIFUL ENTRANCES

Practical Advantages That Commend Union Metal Columns

To Architects — Contractors — Owners

1 Union Metal Columns are made from enduring, copper-bearing, galvanized steel. They are protected against all conditions of weather and last a lifetime.



WEATHERPROOF

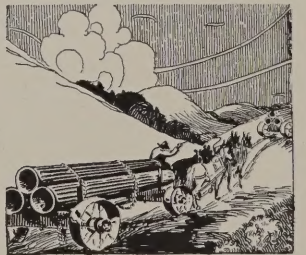
2 They are architecturally correct. Made in nine styles, conforming to the different orders of Grecian and Roman architecture. There is a design for the modest cottage or the most elaborate public building.



FIREPROOF

3 They are unquestionably the only type of inexpensive column that should ever be considered, because they will not split, rot, warp or open at joints as all wood columns do.

4 They are absolutely fireproof. They can be shipped and hauled to locations and under conditions where wood columns would rack to pieces and where handling cost of stone would be prohibitive.



EASILY TRANSPORTED,
HANDLED AND ERECTED

5 Ordinary bumps, blows and rough treatment that would dent wood and chip stone columns beyond repair have no effect upon these sturdy pressed steel columns. Union Metal Columns will stand more abuse than other types of columns.

6 8-10-12-14 inch diameter columns made from one ply, 22 gauge copper-bearing galvanized steel.

16-18-20-22-24-26-28-30-32-34-36-42 inch diameter columns, made from two ply, 22 gauge laminated steel construction. Larger than 42 inch columns made in special construction.



GREAT LOAD-BEARING
STRENGTH



An Investment in Beauty, Strength, Durability, Lifetime Satisfaction

ARCHITECTS, contractors and home owners frequently ask our salesmen and representatives how the cost of Union Metal Pressed Steel Columns compares with wood column prices. It is often difficult to give a definite answer, because prices of wood columns vary with different qualities and forms of construction.

However, in checking many jobs we have found that Union Metal prices range from the same cost as the better grade of wood columns to a slightly higher cost than ordinary mill type columns.

The buyer who tries to save money by substituting cheap columns for Union Metal Columns is simply entering into a future contract for trouble, expense and grief. On account of repairs and replacements he more than pays for metal columns whether he uses them or not.

With Union Metal Columns the first cost is the only cost. Their purchase is not an expense, but an investment in beauty—strength—durability and lifetime satisfaction.

For Homes and



RESIDENCE OF PAUL G. FETZ, XENIA, OHIO

Harley W. Owens, Architect

Six Union Metal Columns, Design 700, Greek Doric, 14 inches diameter, 8 feet high, used on this residence.



Home—The Safest Investment in the World

AN OWNER considers his home the safest investment in the world, and consequently he wants construction materials that will give him lifetime service.

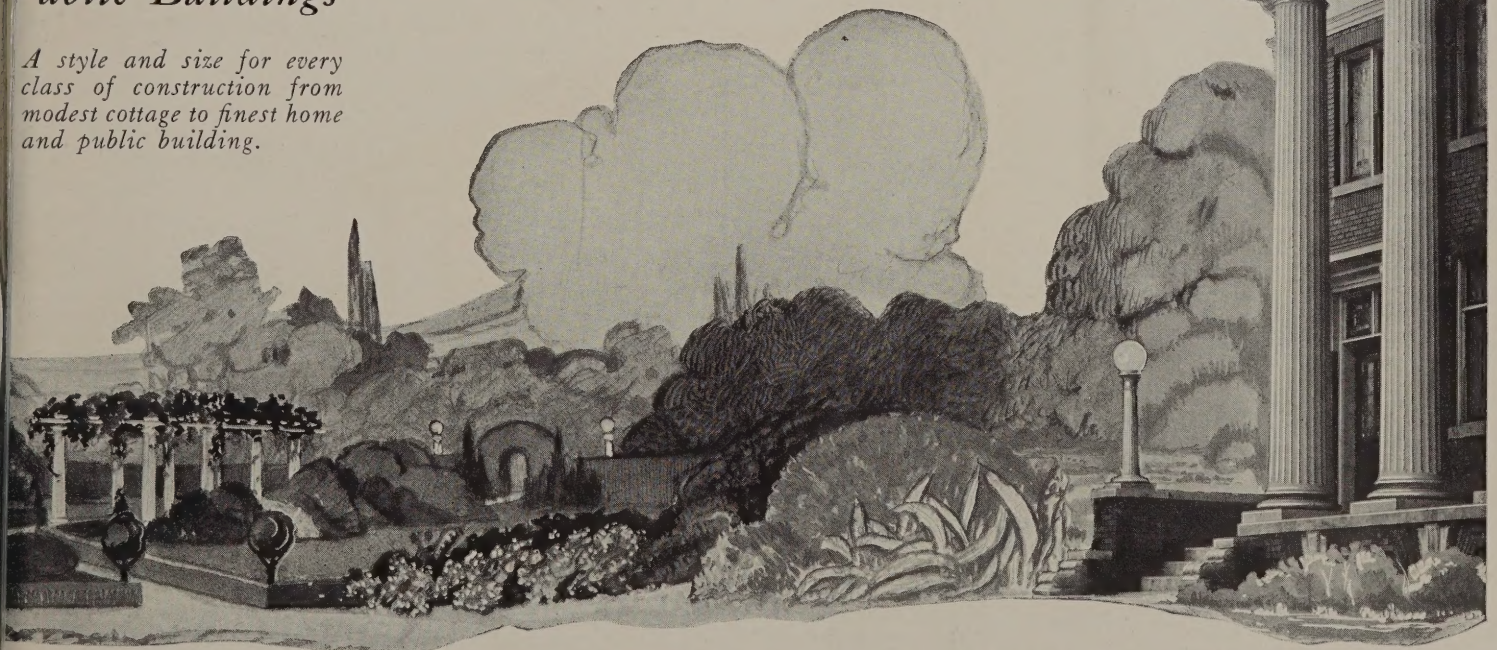
He would consider as absurd any suggestion that his home would be badly disfigured or rotted away in five, seven, or at the most ten years and that his entire investment would then be wiped out. Yet, that is exactly what would happen if the rest of his house had the same quality of materials as his wood columns.

Columns on most buildings form the principal decorative feature. They are the first thing to be seen, the longest remembered and should be of such quality that constant repairs and frequent replacement can be avoided.

Most people realize that even though the initial cost of Union Metal Columns might be slightly higher, the cost over a period of years is very much lower.

Public Buildings

A style and size for every class of construction from modest cottage to finest home and public building.



LARGE UNION METAL COLUMNS—The principal decorative feature of this Church consists of six Union Metal Columns, Design 230, Greek Ionic, 28 inches diameter, 21 feet high.



Architectural and Construction Details of Union Metal Columns

Composition Capital with sharp lines and fine architectural detail.

Stopped flutes and apophyge at top of shaft.

Corinthian flute with flat top [sharp Doric flute provided on Doric designs].

Entasis
[Modified taper giving an outcurving or bulging effect].

Stopped flutes and apophyge at bottom of shaft.

Double roll Attic base with bottom square member.

Cast-iron top ring.

Galvanized steel cylinder carries weight from top ring to pressed steel shaft.

Cast-iron bottom ring. This construction relieves composition capital of all weight.

Union Metal Columns are protected against weather conditions by being galvanized with lead and zinc spelter, both inside and outside.

All columns are provided with priming coat of best grade reinforced red lead before leaving factory. Any color of finishing coat can be applied after erection.

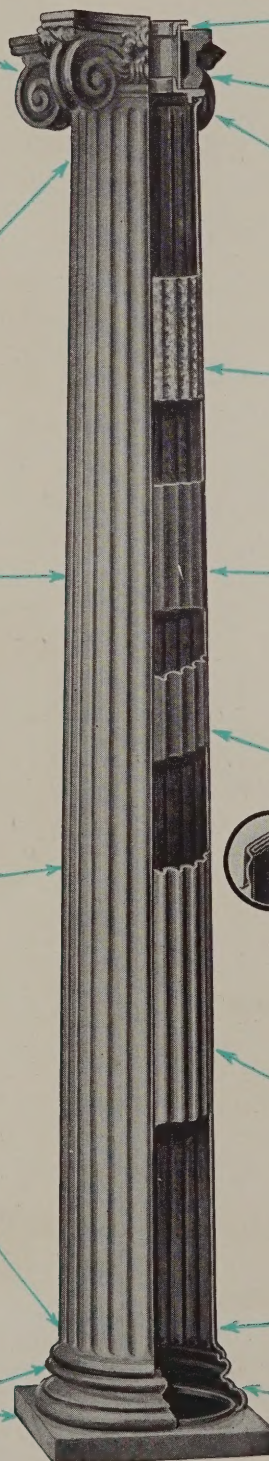
8 inch, 10 inch, 12 inch, 14-inch diameter columns made of one-ply 22-gauge galvanized steel. Large columns, 16 inch to 42 inch diameter, made from two-ply 22 gauge laminated steel construction. Special construction from 42 inch to 60 inch diameter.

Vertical joints of all columns are double lock seamed with seam rolled on inside so that all outside surfaces are smooth and clean.

Section of fluting showing beautiful, clean-cut lines due to Union Metal steel die construction.

Details of stopped flute outward curvature or apophyge and lower end of shaft where it fits over cast-iron base flange.

Cast-iron base, smooth and clean.



FOR BEAUTIFUL ENTRANCES



Extensively Used for Porches, Pergolas, Interiors, Remodeling

Porches

UNION Metal Columns have opened a new era in architecture. They free the architect and builder from the troubles due to splitting, rotting and opening at joints, common to all wood columns. They are reasonable in price with a style and size for every class of construction from modest cottage to finest home and public building.

Pergolas

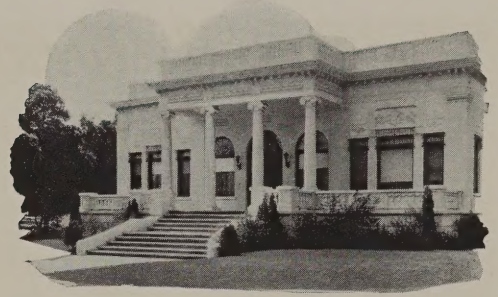
TO REALIZE full enjoyment from home and grounds they should include a pergola or rose screen. The graceful and stately lines of the columns are an ideal background for climbing vines, and as the trellised beams overhead become covered, the pergola is the most pleasing feature of the yard or garden.

Interiors

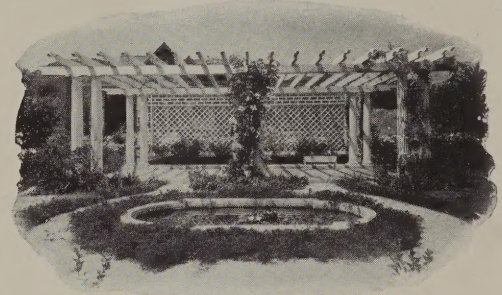
UNION Metal Columns have a wide application to interior use: for lobbies of hotels, banks and clubs. They are popular for entrances, lobbies and proscenium arches of theatres. They are particularly adapted to interior work, because of the beautiful finishes that can be applied—statuary bronze, oxidized copper, verde antique and any of the natural wood finishes. For any interior work, Union Metal Columns take away the severity of line and impart an air of elegance and grace.

Remodeling and Replacement

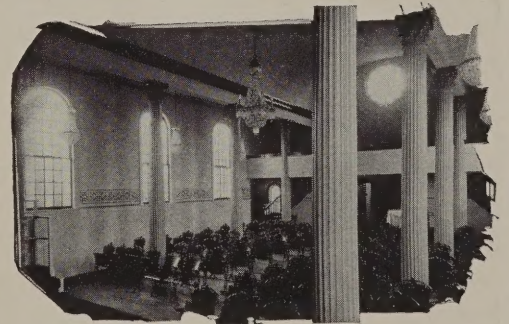
THE remodeling of old buildings and replacement of rotted and split wood columns has proved an extremely fertile field for the sale of Union Metal Columns. They give new beauty to old time buildings at remarkably low expense.



True beauty in architecture may be obtained through the use of correctly designed columns. The McConnell Residence, Beverly Hills, California. *H. M. Banfield, Architect*



Pergola in Los Angeles, Calif., showing dignified application of Union Metal Columns.



Union Metal Columns lend beauty and dignity to the interior as well as the exterior of all types of buildings.



Actual photograph showing replacement of split wood columns with Union Metal Columns on a Cleveland, Ohio, residence. This replacement was made after the house had been built only three years.



Design No. 212, Roman Corinthian. Composition Capital, Attic Base (Cast Iron). Steel Shaft (Cor. Flute).

Design No. 230, Greek Ionic (Erechtheum). Composition Capital, Attic Base (Cast Iron). Steel Shaft (Cor. Flute).

Design No. 237, Modern Ionic. Composition Capital, Attic Base (Cast Iron). Steel Shaft (Cor. Flute).

Dimension Specifications given on Pages 14 and 15.

Union Metal Columns (except design 240) are made in all sizes from 8 inch to 42 inch diameters and from 5 feet to 35 feet high. Design 240 made in 8-10-12-14 inch diameter only. Columns with diameter greater than 42 inches and higher than 35 feet are made in special construction.



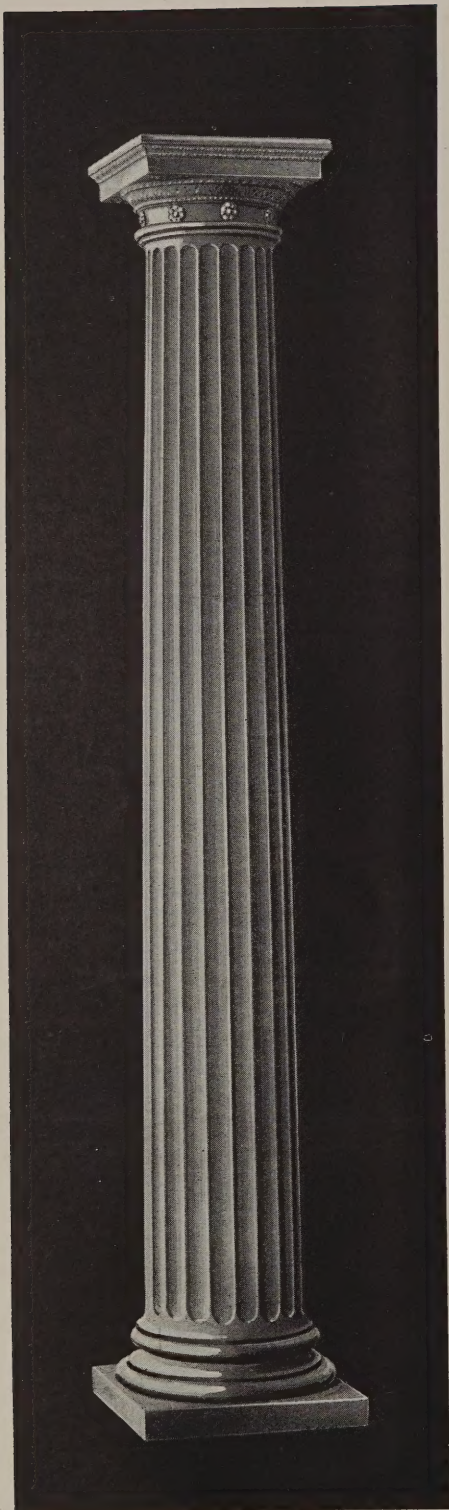
Design No. 222, Italian Renaissance Ionic (Scamozzi). Composition Capital, Attic Base (Cast Iron). Steel Shaft (Cor. Flute).

Design No. 213, Temple of the Winds. Corinthian Composition Capital, Attic Base (Cast Iron). Steel Shaft (Cor. Flute).

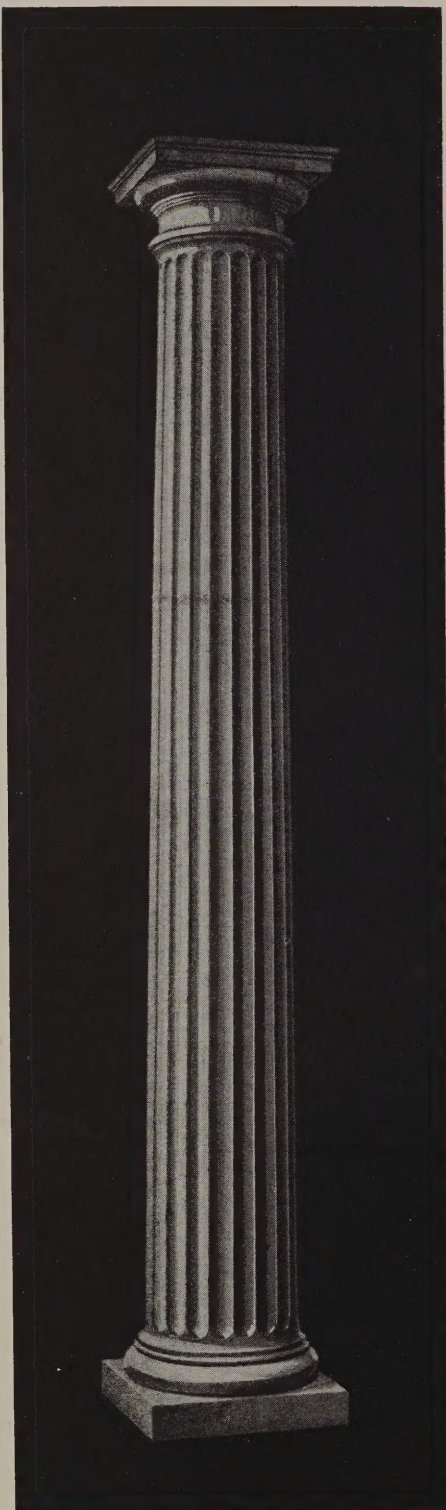
Design No. 219, Italian Composite. Composition Capital, Attic Base (Cast Iron). Steel Shaft (Cor. Flute).

Dimension Specifications given on Pages 14 and 15.

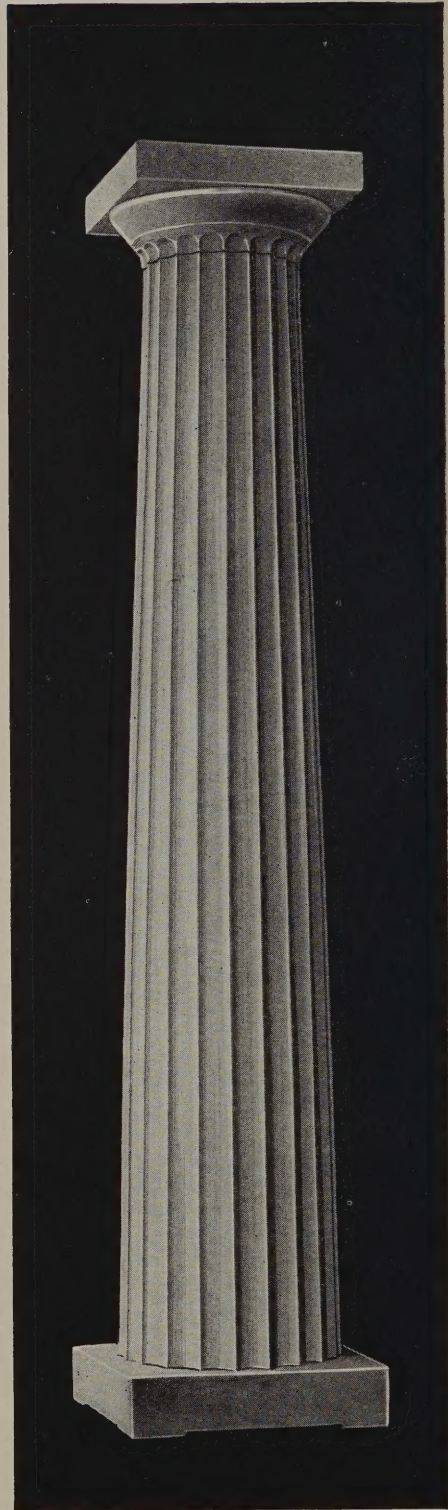
Union Metal Columns (except design 240) are made in all sizes from 8 inch to 42 inch diameters and from 5 feet to 35 feet high. Design 240 made in 8-10-12-14 inch diameter only. Columns with diameters greater than 42 inches and higher than 35 feet are made in special construction.



Design No. 224, Roman Doric (Diocletian)
Composition Capital, Attic Base (Cast Iron),
Steel Shaft (Doric Flute).



Design No. 246, True Roman Doric. Cast
Iron Capital, and Cast Iron Base, Steel Shaft
(Doric Flute).



Design No. 700, Greek Doric. Capital in-
cluding Top Square (Cast Iron). Square Base
Member (Cast Iron). Steel Shaft (Doric Flute).

Dimension Specifications given on Pages 14 and 15

Union Metal Columns (except Design 240) are made in all sizes from 8 inch to 42 inch diameters and from 5 feet to 35 feet high. Design 240 made in 8-10-12-14 inch diameters only. Columns with diameter greater than 42 inches and higher than 35 feet are made in special construction.

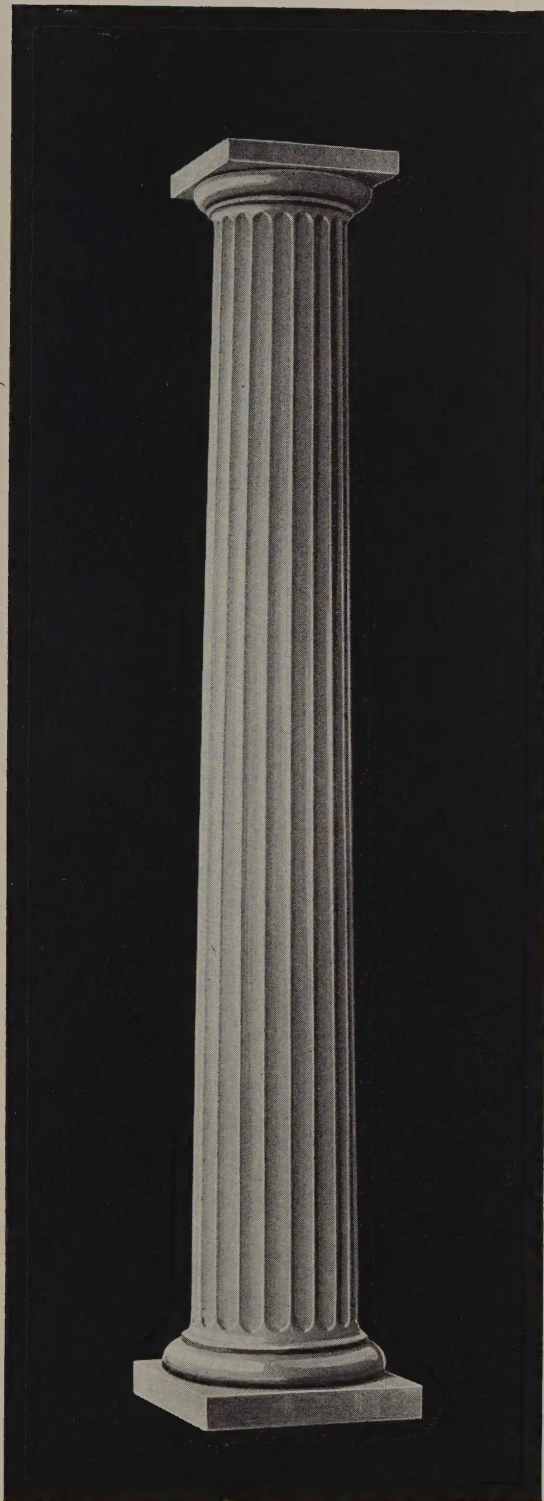


Our Popular Design No. 240

WITH this design, the complete capital and roll member of base are made of No. 16 gauge steel, while the fluted shaft is made of No. 22 gauge steel. The square member of base is made of cast iron.

Although the design does not strictly conform to the classical orders of architecture, it is extremely popular on account of its simplicity. The simple design serves so many purposes where more ornamental columns may appear out of place, or where the cost of one of the classical designs with composition capitals might be considered high.

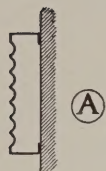
The great demand for this type of column allows us to manufacture and stock it in large quantities. Quantity production reduces the cost of manufacture to a point which warrants our selling this design at an extremely reasonable price.



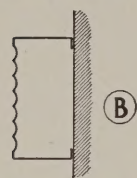
Design No. 240, Modern, Steel Doric. (Doric Flute.) Design 240 furnished at very reasonable prices in stock sizes only:—8-10-12-14 inch diameters and heights of 5 feet to 14 ft. 6" overall in fractional parts of an inch.



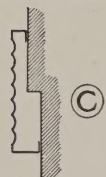
Pilasters and Odd Shapes



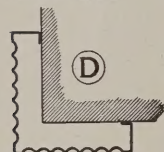
PILASTER
QUARTER RETURN



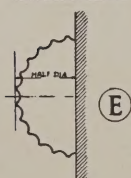
PILASTER
HALF RETURN



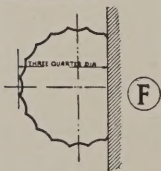
PILASTER
UNEQUAL RETURNS



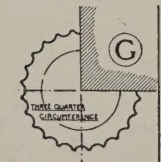
CORNER PILASTER
QUARTER RETURNS



HALF COLUMN



THREE QUARTER
COLUMN



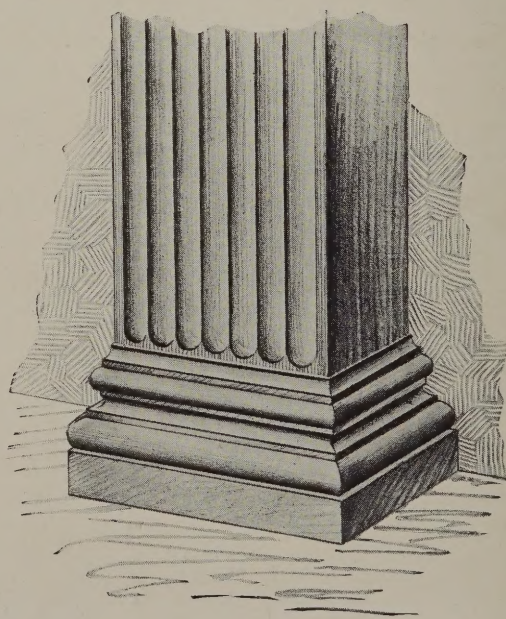
THREE QUARTER
CORNER COLUMN

SQUARE pilasters, corner pilasters, half round columns and three-quarter columns are made in all sizes to match the different designs in this catalog.

In ordering pilasters specify: whether pilaster face shall be tapered to match columns, or whether pilaster face shall be straight from top to bottom. If ordered straight an extra cost applies. Always specify returns of pilasters in inches.

Notes

1. Unless otherwise ordered the bottom and top faces of pilasters will be furnished the same as the bottom and top diameters of columns in which case the pilaster bases and caps will match those of columns in height.
2. All Union Metal Pilasters are fluted on the front face to match columns, but are not fluted on the return faces unless specifically ordered. Fluted returns entail extra cost.
3. Pilasters are furnished with straight side face or straight tapered face and are not provided with entasis.



Detail of bottom of Pilaster showing stopped flute and the fitting to cast iron base.



Union Metal Columns

Have Great Load Bearing Strength

THEY are the strongest architectural columns manufactured. The principle of their construction—the fluted steel cylinder, is in accordance with the best engineering practice and insures great compression strength.

Their strength and service is best exemplified by the fact that of the many thousands in service, not one has ever failed or had to be replaced for any cause whatever.

The results of recent tests on Union Metal Columns by the prominent testing engineers—Robert W. Hunt and Co., show that Union Metal Columns are strong enough for normal loads that they are called upon to bear. When an abnormally heavy pediment or weight is to be supported, they may be reinforced by steel I or H structural beam passing up through them, or if desired, heavy pipe could be used inside the column.

Hunt's Test

Compression Test—Small Column One Ply Steel Shaft

8 inch base Diam.; 6½ inch top Diam.
x 6 feet high.

5,840 lbs.—bottom fillet (apophyge)
bending.

6,580 lbs.—top fillet (apophyge) bend-
ing.

27,220 lbs.—maximum load — column
buckling near top.

Compression Test—Large Column Two Ply Steel Shaft

21 inch base Diam.; 19 inch top Diam.
x 10 feet high.

16,240 lbs.—Bottom fillet (apophyge)
bending.

16,700 lbs.—Top fillet (apophyge) bend-
ing.

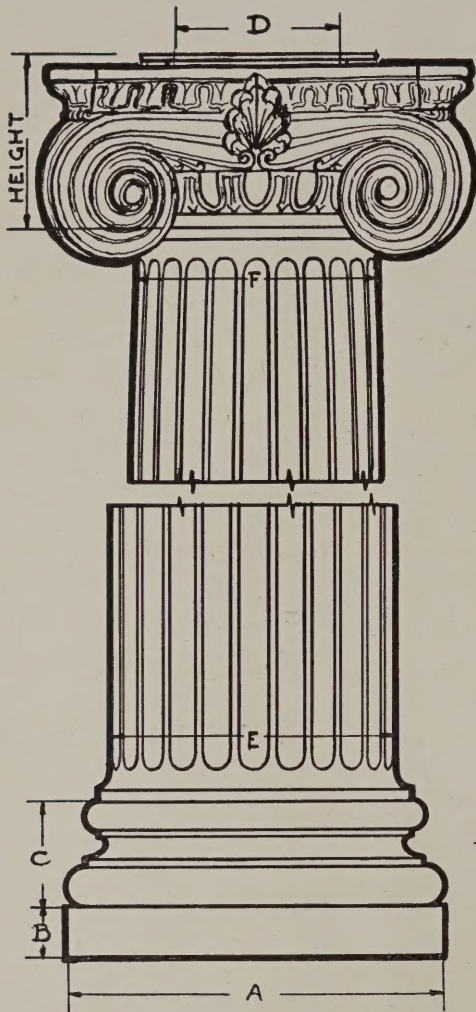
29,960 lbs.—Maximum load. Column
buckling.



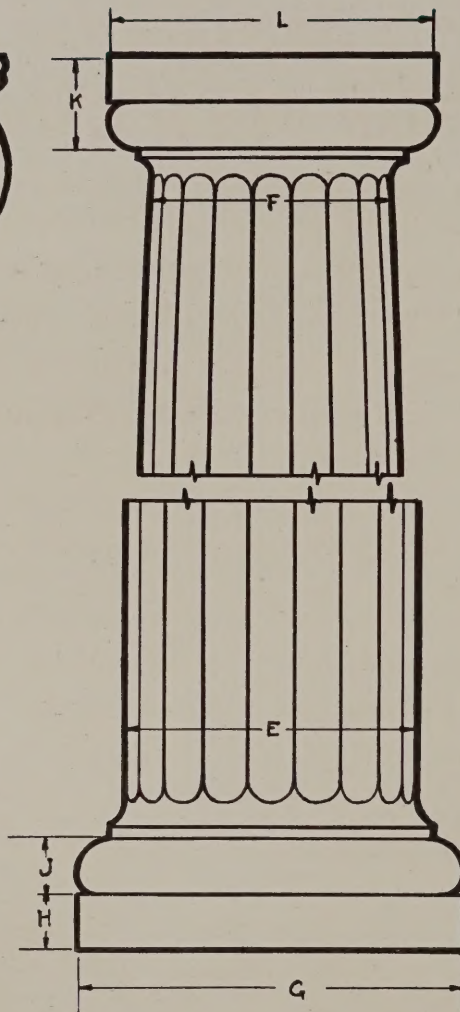
MASONIC HOME, MERIDIAN, MISSISSIPPI

P. J. Krouse, Architect

Union Metal Columns, 30 inches diameter and
23 feet high.

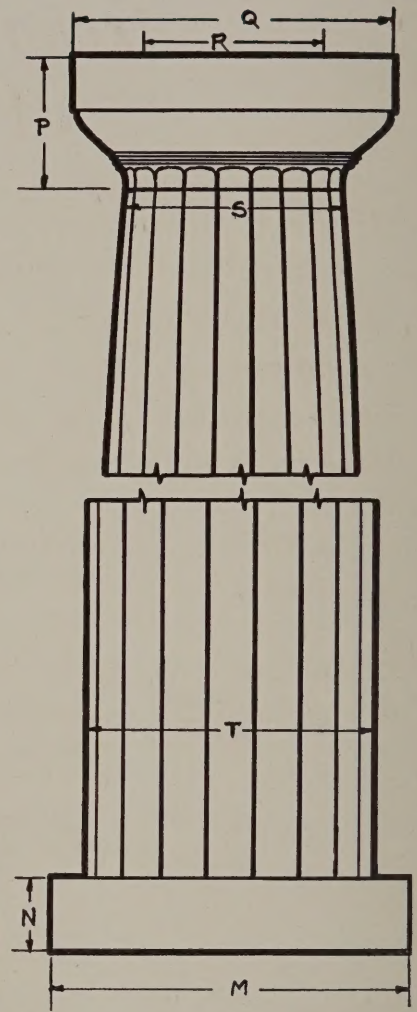


View of all designs using Composition Capitals: 212-230-237-222-213-219 with Corinthian flutes and 224 with Doric flutes.



View of design 240. Modern all-steel Doric.

This column is similar to Roman Doric Design No. 246 shown on page 10 and dimensions of which are given on chart below.



View of Design 700 Greek Doric.

Dimension Chart for Union Metal Columns

Bott. Dia. Shaft	DESIGNS No. 212, 230, 237, 222, 213, 219 and 224												DESIGN No. 240					DESIGN No. 246						DESIGN No. 700								
	A	B	C	D	E	F	HEIGHT OF CAPITAL						G	H	J	K	L	G	H	J	K	L	R	M	N	P	Q	R	S	T		
							212	230	237	222	213	219																			224	
8	10 5/8	1 3/16	3	5 1/8	8	6 1/2	9 7/8	6 1/8	4 1/8	4 1/8	8 7/8	11 1/8	4 3/8	11	1 1/16	1 1/2	2 1/2	8 5/8	10 3/8	1 1/8	1 1/8	4 3/8	9 3/4	5	12 1/4	2 1/2	4 3/8	10 3/8	5 1/4	7 1/2	10	
10	13 1/4	1 1/4	3 3/8	6 1/4	9 3/4	8	13 3/8	9 1/8	6 3/8	5 1/8	12 1/4	13 1/8	6 1/8	13 1/4	1 1/8	1 7/8	3 3/8	11	13 1/4	2 1/8	2 1/8	5 1/8	12	6 1/4	12 1/4	2 1/2	4 3/8	10 3/8	5 1/4	7 1/2	10	
12	16	1 1/8	4 1/8	7 1/8	12	10	15 1/8	11 1/8	6 7/8	5 3/8	15 3/8	15 3/8	7 3/8	15 3/8	1 3/8	2 1/4	3 1/8	13 1/4	15 3/8	2 3/8	2 3/8	6 1/8	14 7/8	8	14 3/8	3	5 3/8	13	6 1/2	9	12	
14	18 5/8	2 1/8	4 3/4	9 3/4	14	12	16 3/4	13 1/4	7 3/4	6 3/4	16 3/4	19 1/4	8 3/4	18 5/8	2 3/4	2 3/4	4 3/8	16	18 1/2	3 3/8	3 3/8	8	18	9 1/2	16 3/8	3 3/8	6 3/8	15 1/8	7 1/4	11	14	
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32	41 1/2	6	10 7/8	20 3/4	31 3/8	25	39 1/2	24 1/2	13 3/8	14 3/8	39 1/2	24 1/2	15 1/2	42 1/2	7 1/8	7 1/8	13 3/8	37 1/2	42 1/2	7 1/8	7 1/8	13 3/8	37 1/2	19 1/2	36 3/4	7 3/8	14 1/2	34 3/4	16	24	32	
34	43	6 1/4	10 3/4	22	34	26 7/8	42	26	16	15	40	26	15	44 1/2	8 1/8	8 1/8	17 1/2	40 3/8	44 1/2	8 1/8	8 1/8	17 1/2	40 3/8	22	39	7 3/4	16 1/2	43	18	28	34	
36	45 1/2	6 1/2	11 1/4	23 1/4	36	29 1/4	42 1/2	28 1/2	18 1/2	16 1/2	42 1/2	28 1/2	16 1/2	47 1/2	8 3/8	8 3/8	19 1/8	43 3/4	47 1/2	8 3/8	8 3/8	19 1/8	43 3/4	23	41 1/2	8 3/4	16 1/2	43	18	28	36	
42	56	7	14	27	42	34	55 3/8	34	19 3/4	19 3/4	55 3/8	34	19 3/4	55 3/8	10	10 1/16																

D and R Dimensions represent opening through capital.

FOR BEAUTIFUL ENTRANCES



Architects Specification Covering Union Metal Columns

“THE fluted columns used in this building shall be Union Metal Pressed Steel Columns with entasis and stopped flutes, manufactured by The Union Metal Manufacturing Company, Canton, Ohio. The design number, style and size of columns to be used is indicated on drawings. The manufacturer shall apply a priming coat of high grade metallastic paint to all columns before shipment from his plant.”

Union Metal Columns (except design 240) are made in all heights in fractional parts of an inch from 5 feet to 35 feet.

Design 240 furnished in stock sizes only:—8'-10'-12'-14' diameters and heights of 5 feet to 14'6" in fractional parts of an inch.

In Service Since 1907



RESIDENCE OF
CAPT. D. H.
BARGER,
SHAWSVILLE,
VA.

Miller & Ma-
hood, Roanoke,
Architects

UNION Metal Columns on the beautiful residence of ~~the late~~ Captain D. H. Barger at Shawsville, Virginia, have given satisfactory service since 1907. This was the first job of Union Metal Columns to be specified by an architect and the first order shipped from our plant.



Attractive Column Entrances



FOR BEAUTIFUL



ENTRANCES

Attractive Column Entrances





Attractive Column Entrances



FOR BEAUTIFUL ENTRANCES



Attractive Column Entrances





Attractive Column Entrances



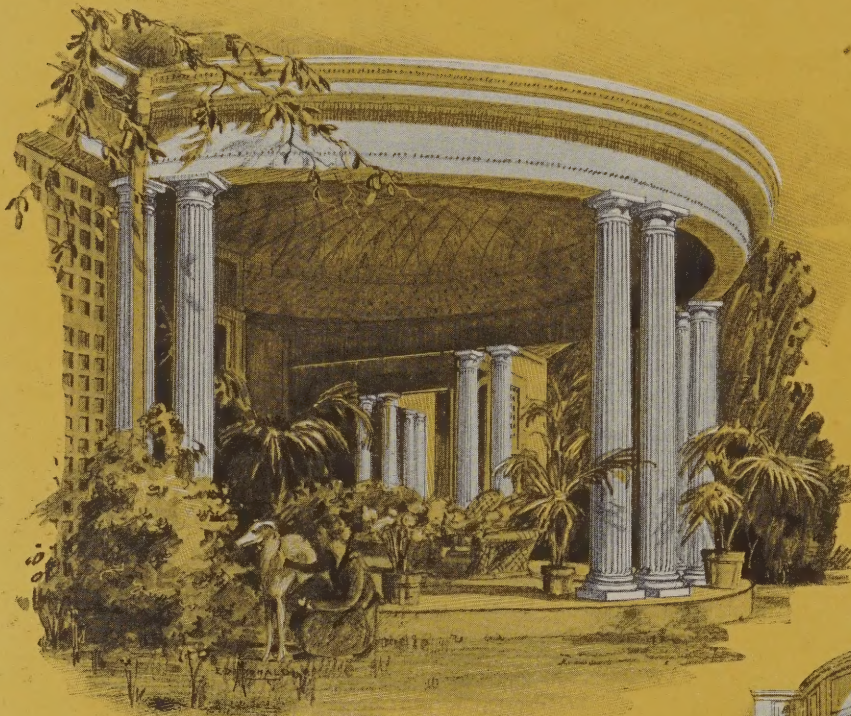
FOR BEAUTIFUL ENTRANCES

Attractive Column Entrances





Attractive Column Entrances



FOR BEAUTIFUL ENTRANCES

Attractive Column Entrances





Attractive Column Entrances





Attractive Column Entrances





Architects and Owners Want the Best Columns

WHEN Doctor Berry and his architects discussed the plans and specifications for this house, they decided that the columns should be permanent as well as beautiful.

That decision led them to specify Union Metal Pressed Steel Columns and Pilasters so that the principal decorative feature of the house might be as permanent and durable as the brick in the walls.

At moderate cost they have given to this home the beauty that comes from the tasteful use of Union Metal Columns. That beauty is permanent for it cannot be destroyed by splitting, rotting or opening at joints which sooner or later mar all wood columns.

This is typical of the service that Union Metal Columns are rendering on thousands of structures throughout the country from modest cottages to larger homes and public buildings.



RESIDENCE OF DOCTOR BERRY, OKMULGEE, OKLAHOMA
Architects, Smith, Rea, Lovitt & Senter
This photograph shows the application of Union Metal
Large Columns and Square Pilasters.



Easily Transported, Handled and Erected

LIGHT weight and great strength enable Union Metal Columns to withstand the shocks and strains of unloading from cars and hauling to the job. They can also be economically and safely transported long distances over rough country roads.

Hauled Over 40 Miles of Corduroy Road

A PROMINENT Virginia architect has recently used eight 30-inch diameter Union Metal Columns on a court house, forty miles from the nearest railroad station. He stated that Union Metal Pressed Steel Columns were the only ones that could be safely transported by mule teams over the rough corduroy roads.

In constructing a building at Kanab, Utah, Union Metal Columns were used. They had to be hauled a hundred miles over desert and mountain trails from the nearest station on the San Pedro, Los Angeles, Salt Lake Railroad.

Under such conditions stave wood columns would rack to pieces and transportation on heavy stone or terra-cotta would be prohibitive.



UNION METAL COLUMNS ON THE HILLERY BASKETT
RESIDENCE AT HENDERSON, KY.

J. A. Clore, Architect

An example of how Union Metal Columns may be used in remodeling old homes—tremendously enhancing the beauty and value of the structure.

U N I O N



METAL COLUMNS

Installations



RESIDENCE, DR. R. E. PFOUTS, CANTON, OHIO
Showing dignified application of Union Metal Columns
to front entrance and sun-room construction.



Six Union Metal Columns, Roman Doric Type, Design No. 246 beautify the Sigma Phi Epsilon Fraternity House, Corvallis, Oregon
Freeman and Strubble, Architects - Salem, Oregon
McFadden & Swain, Contractors - Corvallis, Oregon

FOR BEAUTIFUL ENTRANCES

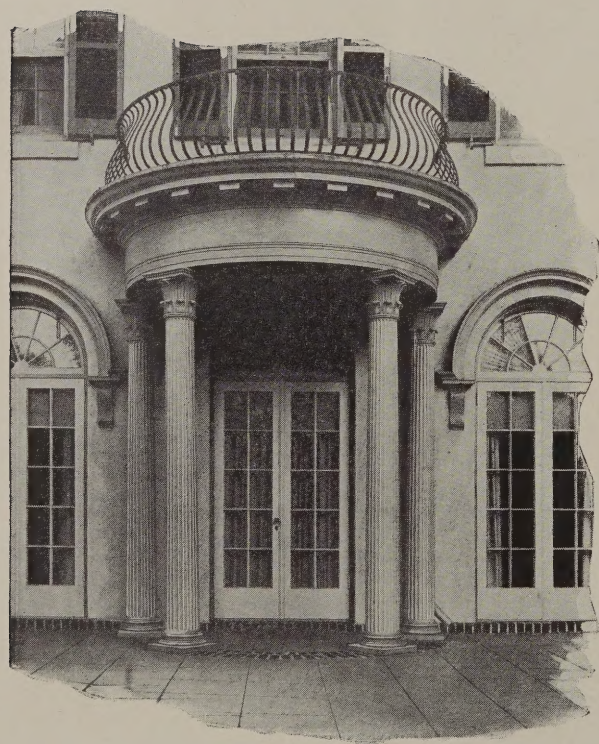


ALBERTINA KERR NURSERY HOME, PORTLAND, OREGON
Johnson- Parker-Wallwork, Architects, Portland



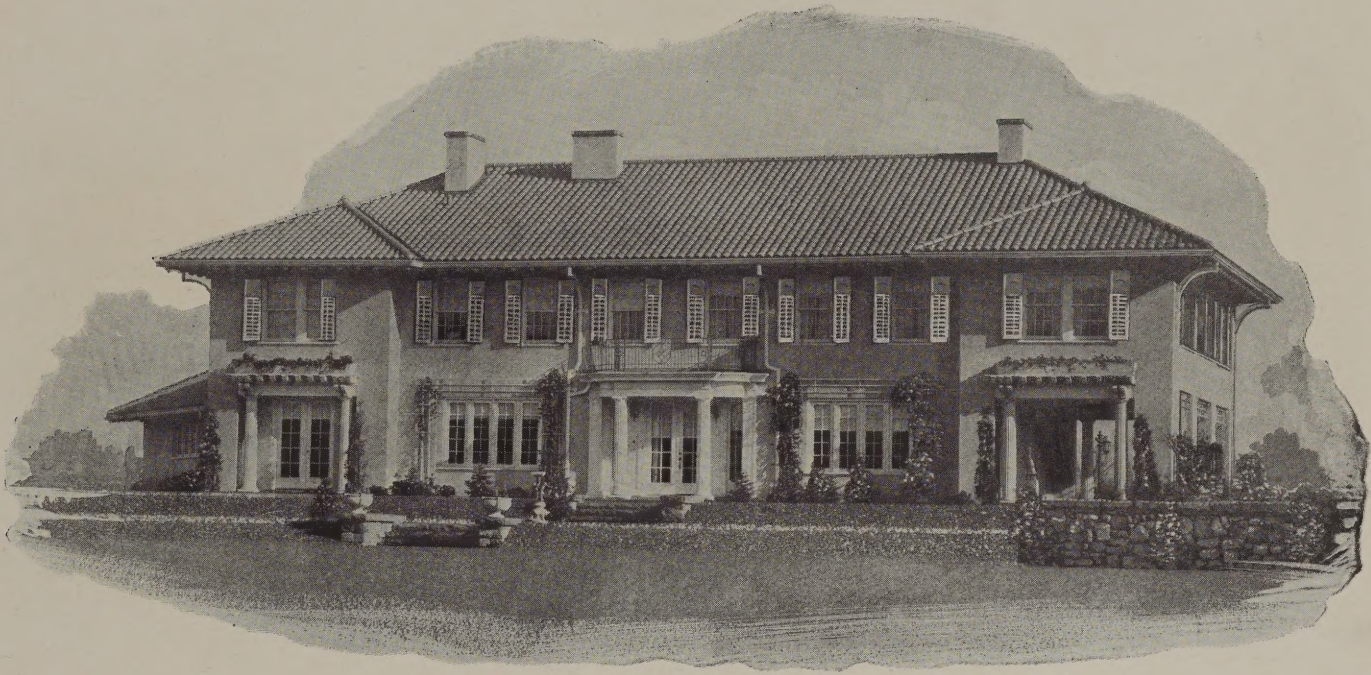
I. O. O. F. ADMINISTRATION BUILDING - WALLA WALLA, WASHINGTON
Ten Union Metal Columns, Italian Composite Type, Design No. 219 were used as the principal decorative feature for the front of this building. Columns are 26 inches in diameter and 30 feet high.

Osterman & Seibert, Architects



THREE VIEWS OF C. C. NORRIS, JR., RESIDENCE,
HAVERFORD, PENNSYLVANIA
Architect, W. W. Potter, Philadelphia

FOR BEAUTIFUL ENTRANCES



UNION METAL COLUMNS ON RESIDENCE OF H. W. HOOVER
NORTH CANTON, OHIO
Charles E. Firestone, Canton, Architect



IMPOSING ENTRANCE TO RESIDENCE OF MISSES HERRON
AND HOOD, BELLE MEADE PARK, NASHVILLE, TENN.
Asmus & Norton, Architects



THE F. J. UEHLING RESIDENCE, FARNAM ST., OMAHA, NEB.



"SPRUCE HILL COURT" APARTMENTS, PHILADELPHIA - PENNSYLVANIA, APARTMENT HOUSE - *W. H. Walker, Architect and Builder*
 Eight Columns, Design 246, Plain Doric, 18 inches diameter, 15 feet high on two wing buildings.
 Four Columns, Design 212, Roman Corinthian, 28 inches diameter, 28 feet high on main building.

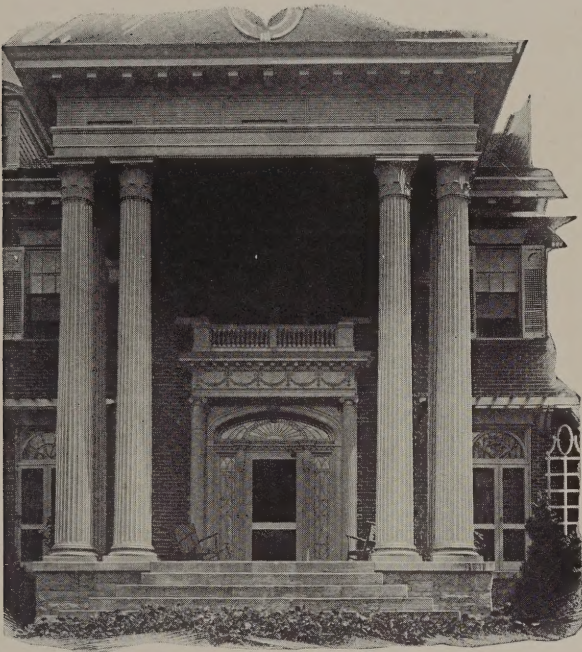


UNION METAL COLUMNS, GREEK IONIC (ERECHTHEUM) DESIGN NO. 230 - *H. M. Banfield, Architect*
 Enduring dignity and beauty are expressed in the architecture of the McConnell Residence, Beverly Hills, Calif.

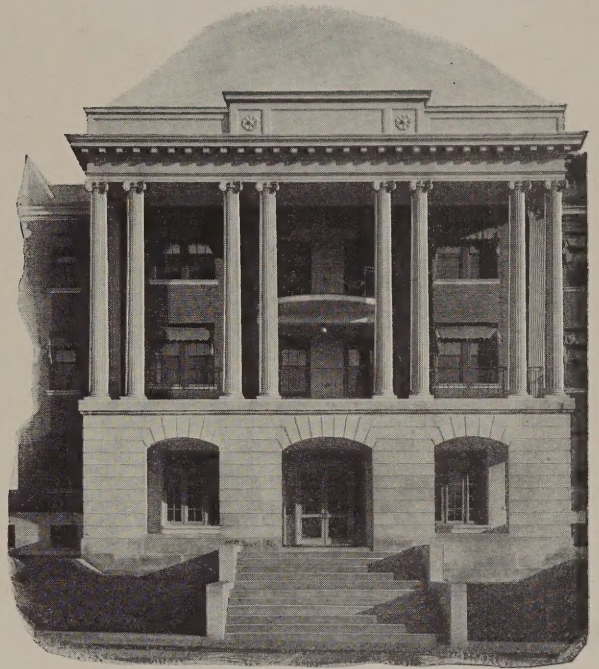
FOR BEAUTIFUL



ENTRANCES



ENTRANCE TO D. S. ETHERIDGE RESIDENCE,
MISSIONARY RIDGE, CHATTANOOGA, TENNESSEE
Louis H. Bull, Architect



WARDMAN PARK HOTEL ANNEX,
WASHINGTON, D. C.
Wardman & Waggaman, Architects

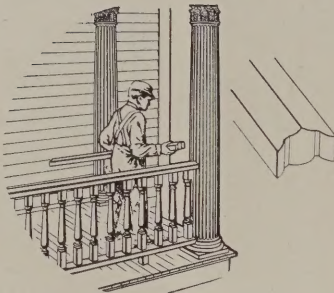


REAR VIEW D. S. ETHERIDGE RESIDENCE,
MISSIONARY RIDGE, CHATTANOOGA, TENNESSEE
Showing how Union Metal Columns help to improve
the rear as well as front entrances.



Additional Installation Details

To Erect Balustrade and Porch Rail with Union Metal Columns

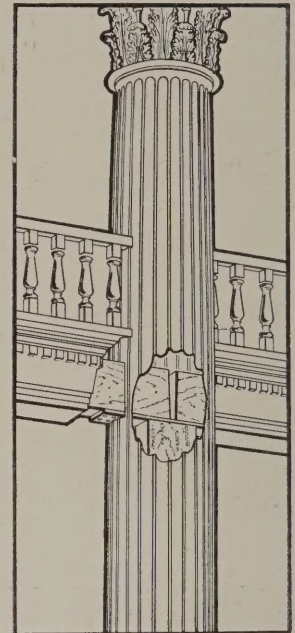


Cut ends of rail to fit the flutes in column, using care to make length of rail exact distance between columns at point somewhat above the final resting point. The taper of the columns will admit the rail above this point, and permit it to be forced down to the proper point. The steel flutes will then hold the rail secure.

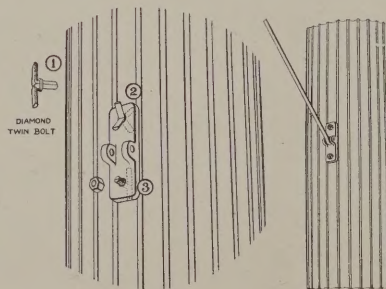
To prevent lower rail and balustrade being raised after setting, block may be nailed between lower rail and floor.

Where extremely heavy weights are to be suspended, we cut a section out of the steel columns at the proper heights, as indicated on architect's plans. This admits the balcony floor supporting members into the steel columns and the weight is supported by timbers [6 x 6 inches or 8 x 8 inches, etc.] as shown in drawing. Contractor inserts supporting timber when columns are being erected.

Alternative: When abnormally heavy weights are to be suspended by the whole column, it is customary to run a heavy timber [8 x 8 inches or 10 x 10 inches, etc.] from bottom to top. If balcony is to be suspended, we cut section out of column at specified height. Balcony supporting joists enter through this opening and are mortised into the sides of the upright supporting timber.



Method of Attaching Awning Hooks to Union Metal Columns



No. 1 represents a Diamond Twin Bolt. It is shown separate from awning hook to give an idea of how it is inserted in its original form into the column.

No. 2 shows it inserted through the awning hook and column. It is partly pressed together on the outside and is opening up on inside as indicated by dotted lines.

No. 3 shows twin bolt pressed together on outside and separated on inside so that the inside lugs bear against the inside of shaft. In this position the nut is placed on twin bolt and tightened. Each awning hook is held to column by two of the twin bolts.

Other sketch shows awning hook and supporting rod in place.



A Pergola for Your Garden

YOU cannot realize the full enjoyment of home grounds unless they include a pergola, rose screen or arbor. The pergola offers a needed contrast to the solid masses of color and foliage and breaks up the monotony of level grounds into restful spaces and attractive nooks.

The graceful and stately lines of the columns are an ideal background for climbing vines, and as the trellised beams overhead become covered, the pergola is the most pleasant feature of the garden.

A Pergola Enhances the Value of Your Home

The pergola, rose screen and trellis has become more than just a decoration in the modern yard or garden. It serves many practical, as well as decorative purposes and now receives much thoughtful consideration by architects and landscape gardeners in planning attractive homes and grounds.

Not only does the pergola make outdoor living possible during that part of the year when it is so well worth while, but it greatly enhances the monetary value of the entire property.

Uses of Pergolas, Rose Screens and Arbors

When the pergola was inherited from older countries, it could possibly be classified as a luxury, but today it has become a useful ornament that is rapidly growing in favor as home builders come to realize its many practical uses.

It often serves as a retreat, a vine covered bower or a restful nook. Frequently it leads off into the lawn and sometimes to the garage, or terminates at a pond or miniature garden. It often covers or surrounds a garden pool, and sometimes serves as a center piece for an old fashioned flower garden.

Again it may serve as a bridge, with columns at either end, in this way spanning an open ravine and adding to the charm of the home grounds. In country and suburban homes it has a special place, because of the expanse that many of these abodes possess, thereby making its necessity more keenly felt. Its aesthetic and utilitarian possibilities are really unlimited.



In addition to its beauty, this vine covered Union Metal Pergola provides privacy, weather protection and serves as an outdoor living room during the delightful summer months. It extends a continual invitation to its owner and his guests to walk through the grounds or to rest in its shade.



Enduring Weatherproof Construction Necessary In Pergolas and Garden Equipment

The value of a pergola, rose screen or trellis depends upon its permanence.

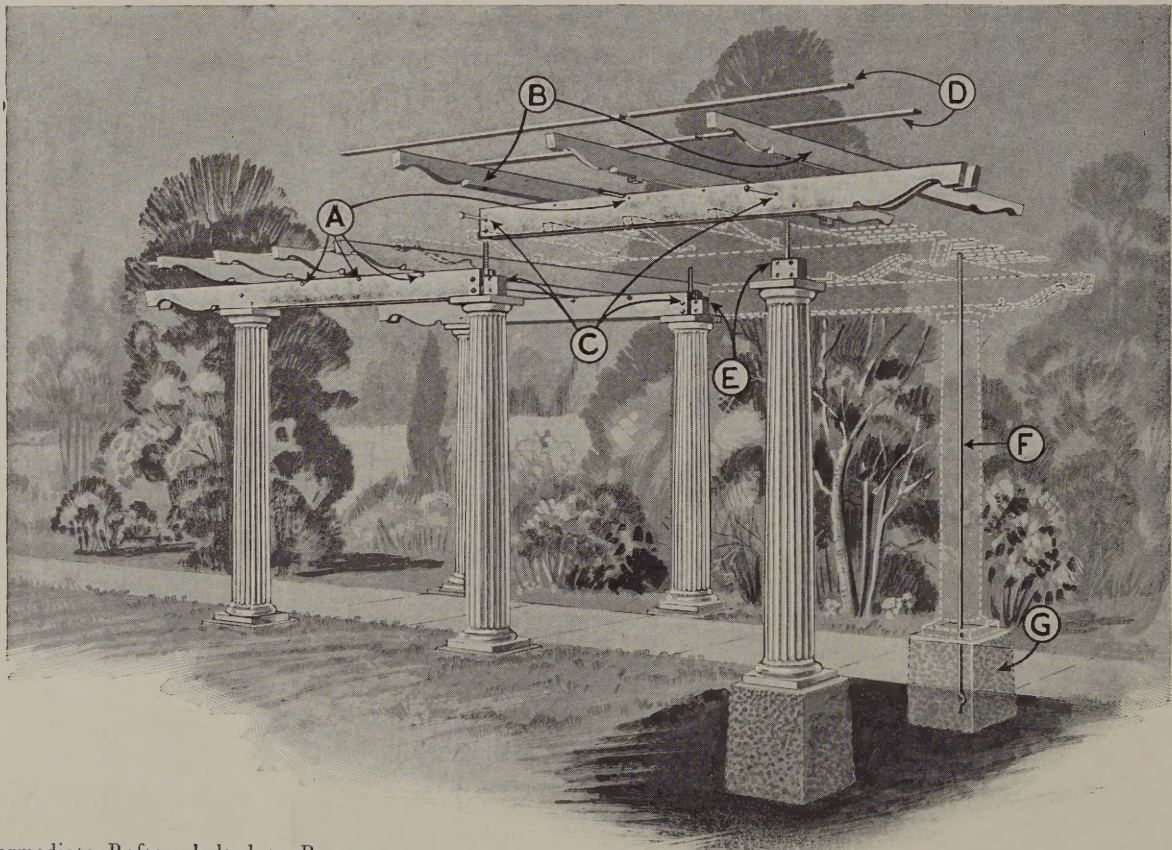
While originally erected largely for decorative purposes, the pergola today is frequently constructed with cement or stone floor and often made a permanent part of a garden pool or attached to another building.

In all cases the columns are constantly exposed to the overfriendly sun from above, and the damp ground or cement foundation at their bases. This dampness together with the heavy mass of vines and shrubbery creates a condition that quickly destroys wood columns or makes them so unsightly that frequent replacement is necessary. With their many joints, they swell in the moisture, shrink again with the hot sunshine, and soon the cracks appear, exposing unpainted wood to the certain effects of decay.

UNION METAL PERGOLAS ARE PERMANENT AS WELL AS BEAUTIFUL

How then can a pergola be made permanent? How can the owner be relieved of the trouble and expense of installing new columns and tearing down his vines when they are just reaching maturity? There is just one answer: By using Union Metal Columns, "The Ones That Last a Lifetime."

These enduring pressed steel columns have solved the splitting and rotting problem on thousands of porches and building entrances and are extensively used for pergolas everywhere.



- (A) Intermediate Rafters bolted to Beams.
- (B) Anchor Rods pass through Rafters located over Columns.
- (C) Beam bolted to Spacing Block.
- (D) Lattice tacked on to Rafters.
- (E) Spacing Block bolted down on top of Column.

- (F) Steel Anchor Rod provided with each Column.
- (G) Concrete sub-base.

Sketch showing construction and erection details of a typical Union Metal Pergola. This is a two section, six column pergola, same style and construction as three section, eight column Design No. 60, Page 43 of this book. Although Union Metal Pergolas vary greatly in shape and size, this sketch is typical of the simple construction and easy erection that they all possess.



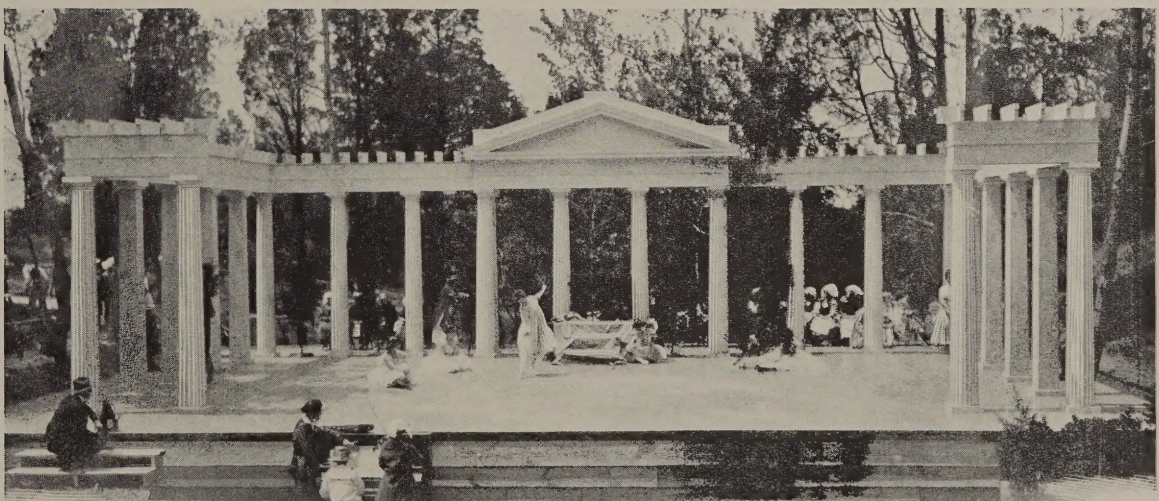
Ordering and Erecting Union Metal Pergolas

ALTHOUGH we will at all times hold ourselves in readiness to supply complete pergolas including columns, anchor rods, wood beams, rafters and all other parts; years of experience have demonstrated that it is more economical to order only the columns and anchor rods from us and to have a local contractor obtain the necessary wood superstructure from a local mill. By this method of procedure, a considerable saving is made in freight rates and other factors.

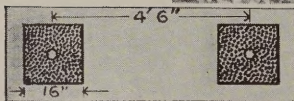
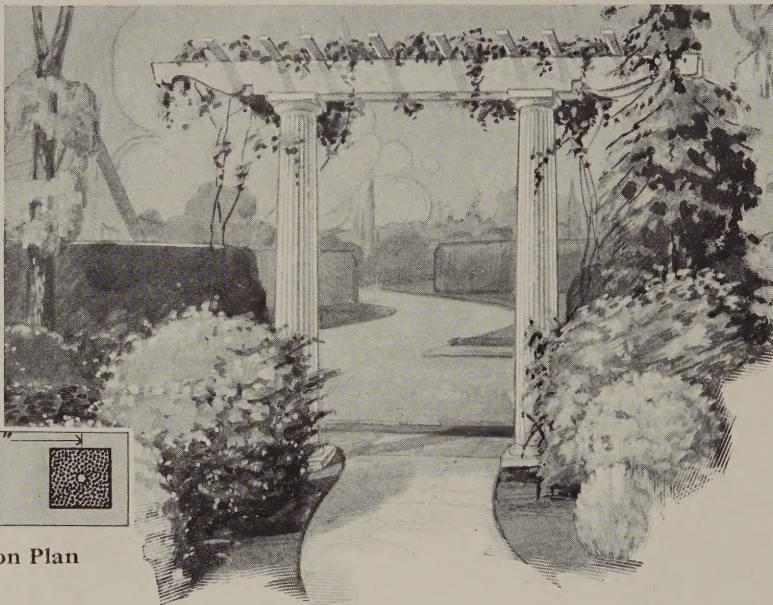
Upon selecting the type of pergola or rose screen you desire, we will supply all metal

parts and a full set of blue prints and instructions from which your contractor can order rafters, beams, trellises, etc., and erect the entire pergola. By pursuing this method, you obtain the benefit of local prices on mill work and centralize the control in your local contractor.

Prices applying to pergolas and rose screens cover them complete as shown. We, however, are in position to supply the metal columns and anchor rods only, in the event wood superstructure will be supplied locally.



A generous use of Union Metal Columns on Outdoor, Greek amphitheatre at National School of Domestic Art and Science, Washington, D. C. Charles Francis Wood, Consulting Engineer.

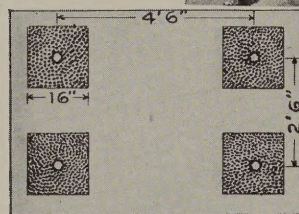
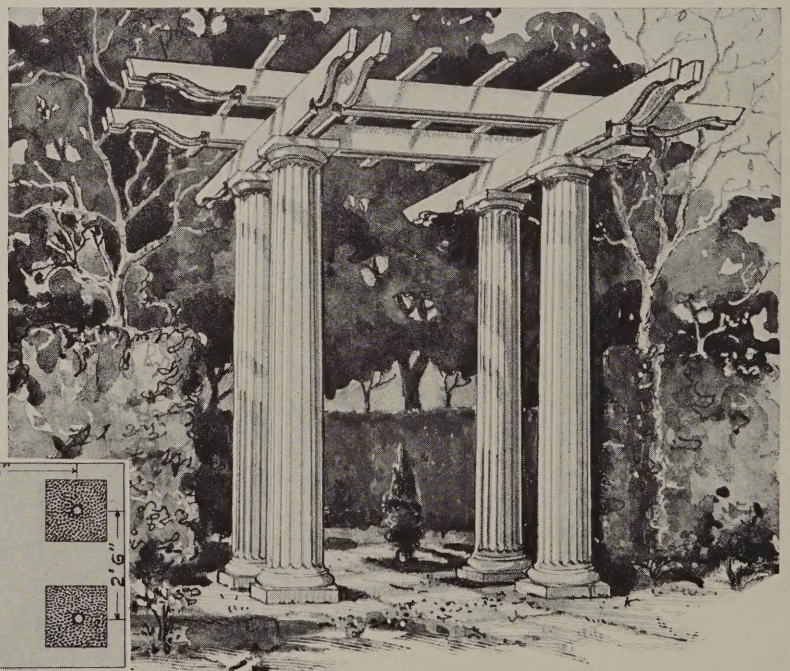


Foundation Plan

Design No. 50

Two Column Gateway Pergola

Specifications: Two Union Metal Columns, Design 240, Modern Doric, 10' Base Diameter, 8" Top Diameter, 7' high, wood beams 2" x 8", lath 1" x 2".

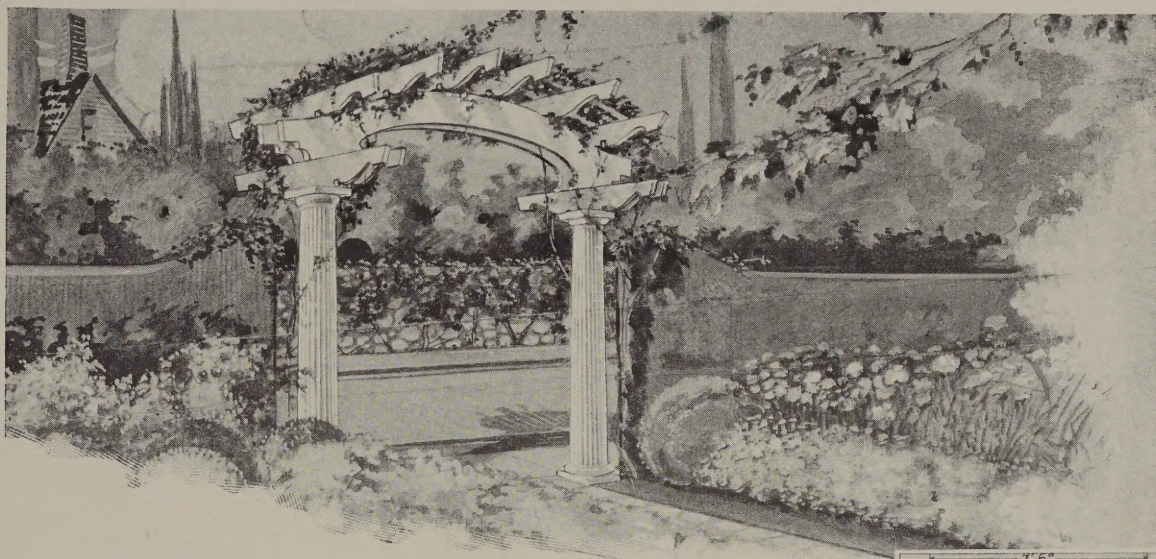


Foundation Plan

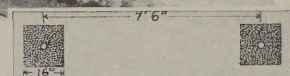
Design No. 51

Four Column Gateway Pergola

Specifications: Four Union Metal Columns, Design 240, Modern Doric, 10' Base Diameter, 8" Top Diameter, 7' high, wood beams 2" x 8", rafters 2" x 6", lath 1" x 2".



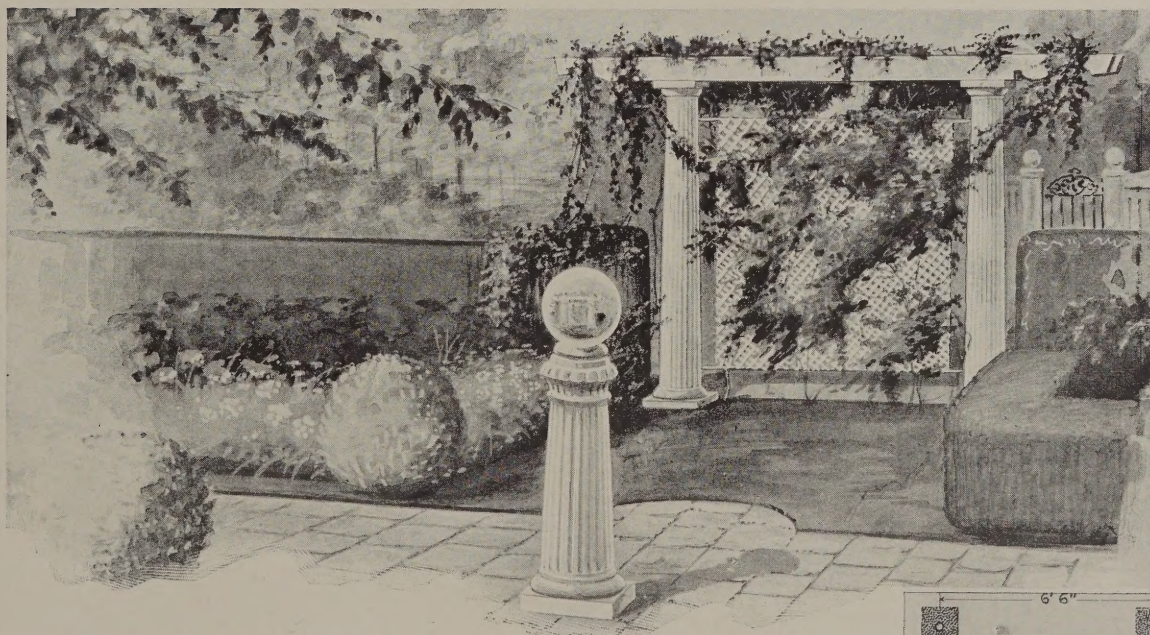
Design No. 52



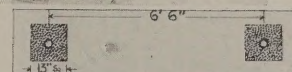
Foundation Plan

Two Column Gateway Arch

Specifications: Two Union Metal Columns, Design 240, Modern Doric—10" Base Diameter, 8" Top Diameter, 7' high. Wood beams 2" x 10", curved top 2" x 10", top rafters 2" x 6". Lath 1" x 2".



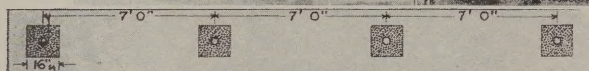
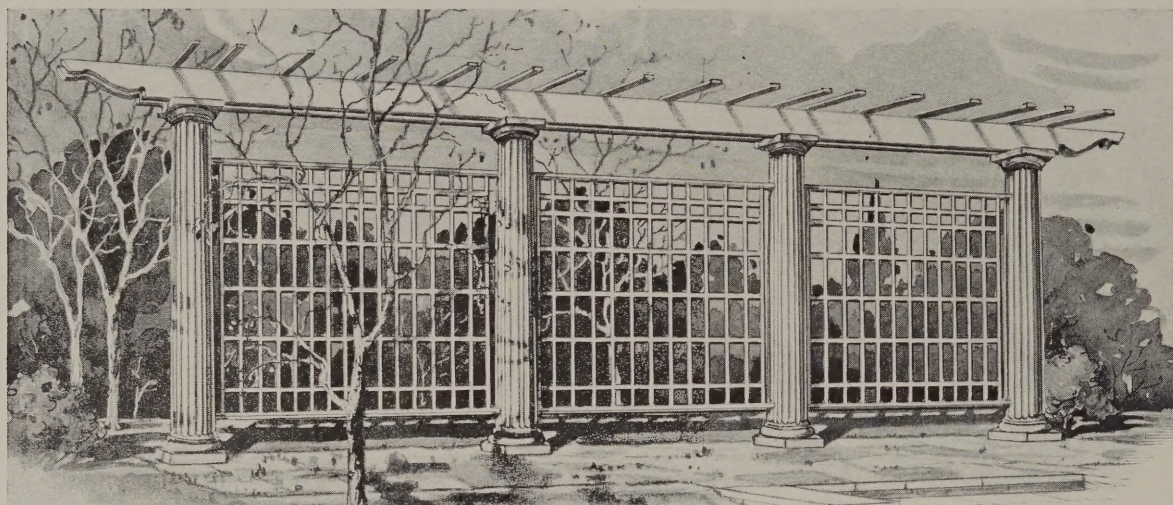
Design No. 53



Foundation Plan

Two Column Rose Screen

Specifications: Two Union Metal Columns, Design 240, Modern Doric—8" Base Diameter, 6½" Top Diameter, 6' 6" high. Wood beams 2" x 6". Lath 1" x 2".

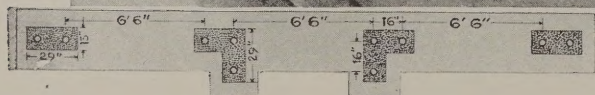
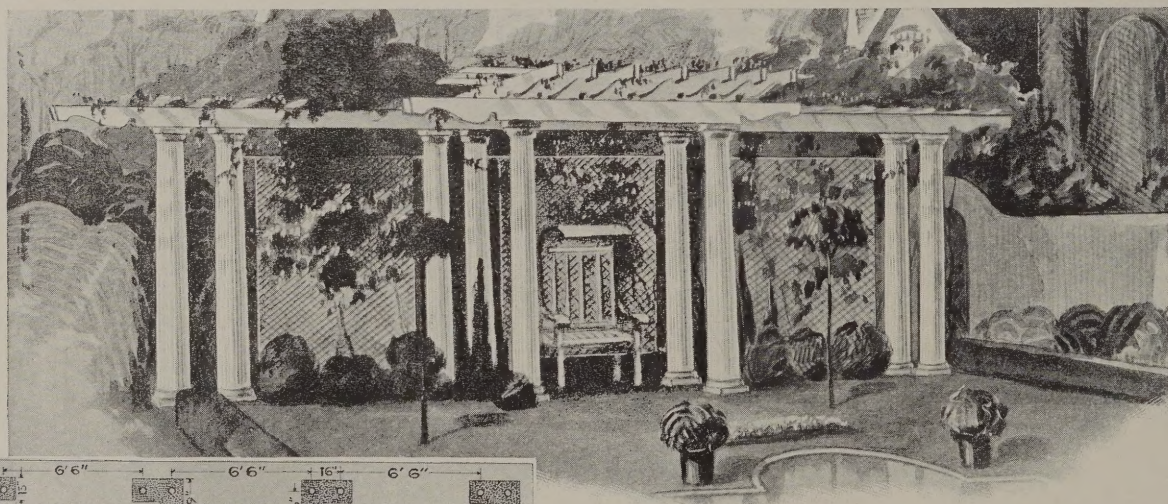


Design No. 54

Foundation Plan

Four Column Rose Screen

Specifications: Four Union Metal Columns, Design 240, Modern Doric—10" Base Diameter, 8" Top Diameter, 7' high. Wood beams 2" x 8", lath 1" x 2".



Design No. 55

Foundation Plan

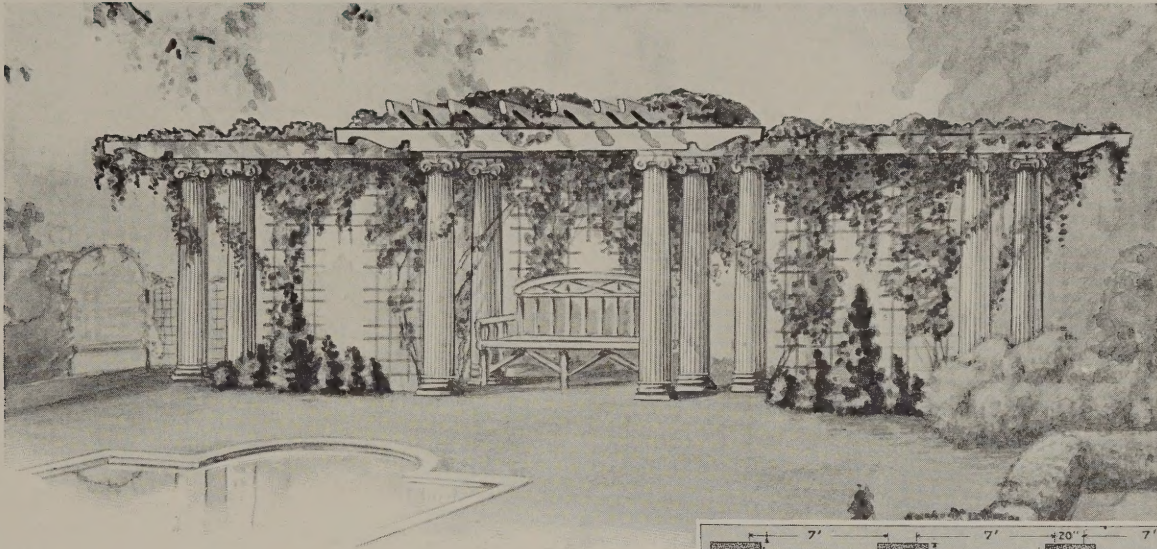
Ten Column Rose Screen Pergola

Specifications: Ten Union Metal Columns, Design 240, Modern Doric—8" base diameter, 6½" top diameter, 6' 6" high. Wood beams 2" x 6", rafters 2" x 4". Lath 1" x 2". Wood bench not included in price of Pergola.

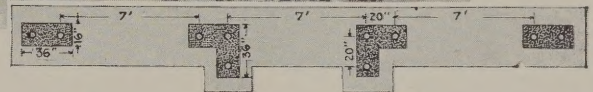
Design No. 55-A—Ten Column Rose Screen Pergola

A very popular design, slightly heavier and larger than Design 55.

Specifications: Ten Union Metal Columns, Design 240, Modern Doric—10" Base Diameter, 8" Top Diameter, 7' high. Wood beams 2" x 8", rafters 2" x 6", lath 1" x 2". Distance center to center of columns 7' instead of 6' 6" as shown on No. 55 Foundation Plan. Wood bench not included in price of Pergola.



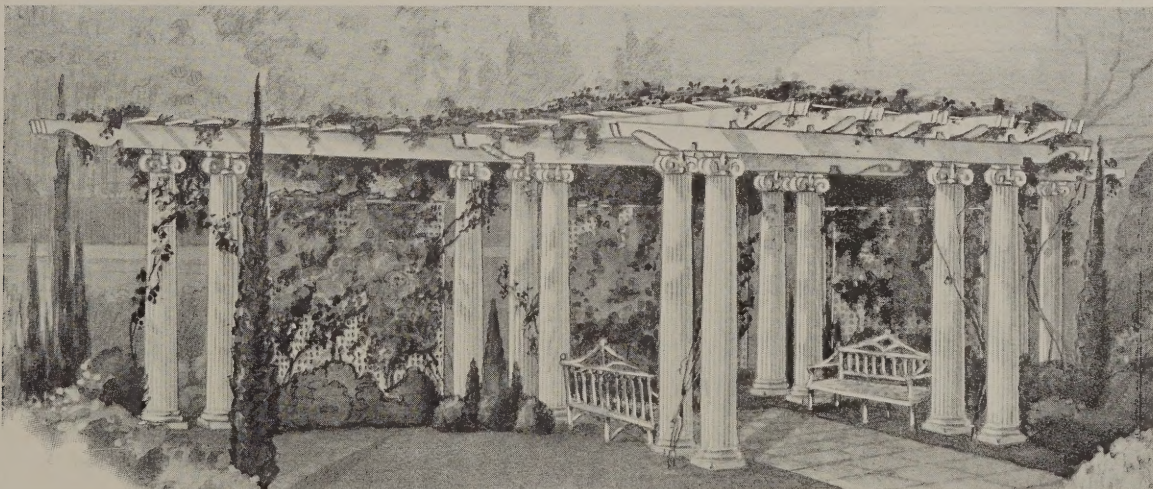
Design No. 56



Foundation Plan

Ten Column Rose Screen Pergola

Specifications: Ten Union Metal Columns, Design 237, Modern Ionic—10" Base Diameter, 8" Top Diameter, 7' 6" high. Wood beams 2" x 8", rafters 2" x 6", lath 1" x 2". Three ornamental trellises made of wood. Wood bench not included in price of pergola.

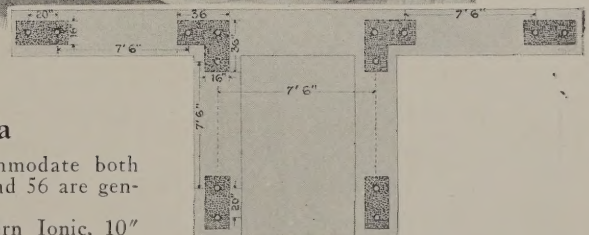


Design No. 57

Fourteen Column Rose Screen and Pergola

Very popular where sufficient ground space is available to accommodate both rose screen and Pergola. Where space is limited, Designs 55, 55-A and 56 are generally used.

Specifications: Fourteen Union Metal Columns, Design 237, Modern Ionic, 10" base diameter, 8" top diameter, 7' 6" high. Wood beams 2" x 8", rafters 2" x 6", lath 1" x 2".

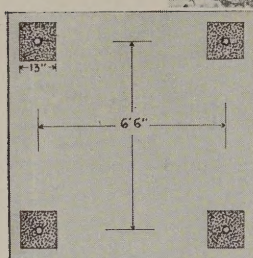
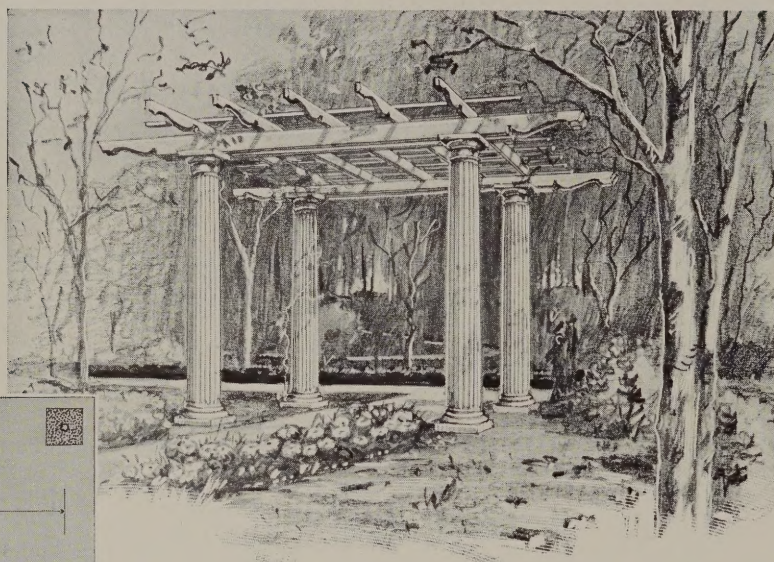


Foundation Plan

Design No. 57-A—Fourteen Column Rose Screen and Pergola

Lower cost design by using No. 240 Columns.

Specifications: Fourteen Union Metal Columns, Design 240—10" x 8" x 7' high. Beams, rafters and trellises same as Design No. 57. Distance center to center of columns 7' instead of 7' 6" shown on No. 57 Foundation Plan.

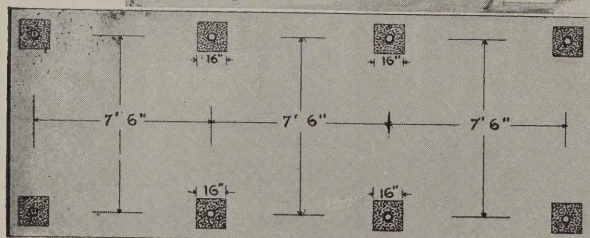
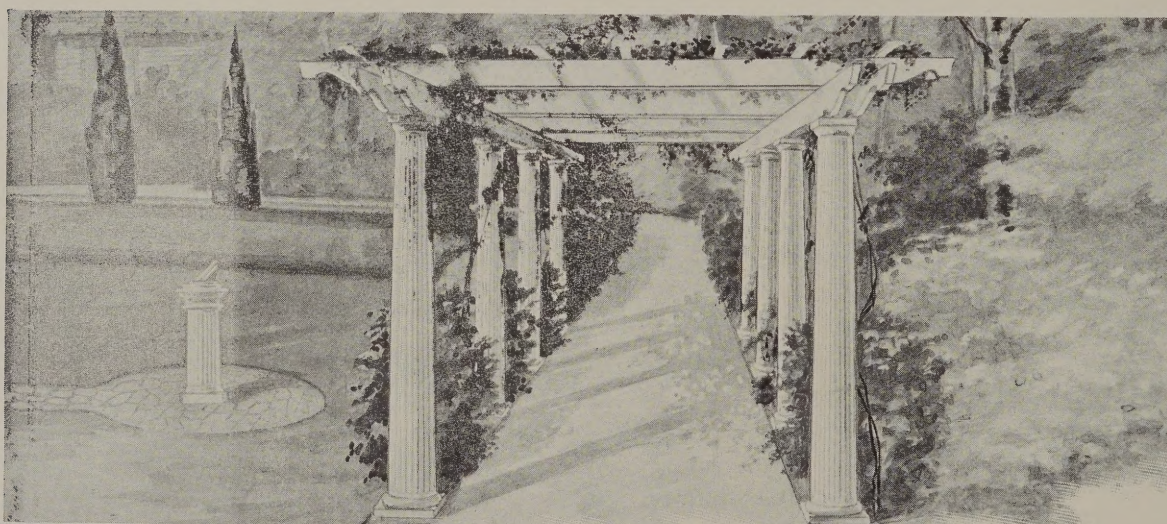


Foundation Plan

Design No. 58

Four Column Pergola

Specifications: Four Union Metal Columns, Design 200, Plain Doric—8" Base Diameter, 6½" Top Diameter, 6' 6" high. Wood beams 2" x 6", rafters 2" x 4", lath 1" x 2". Note: Design No. 58-A is this same pergola with Design 240 Modern Doric Columns.



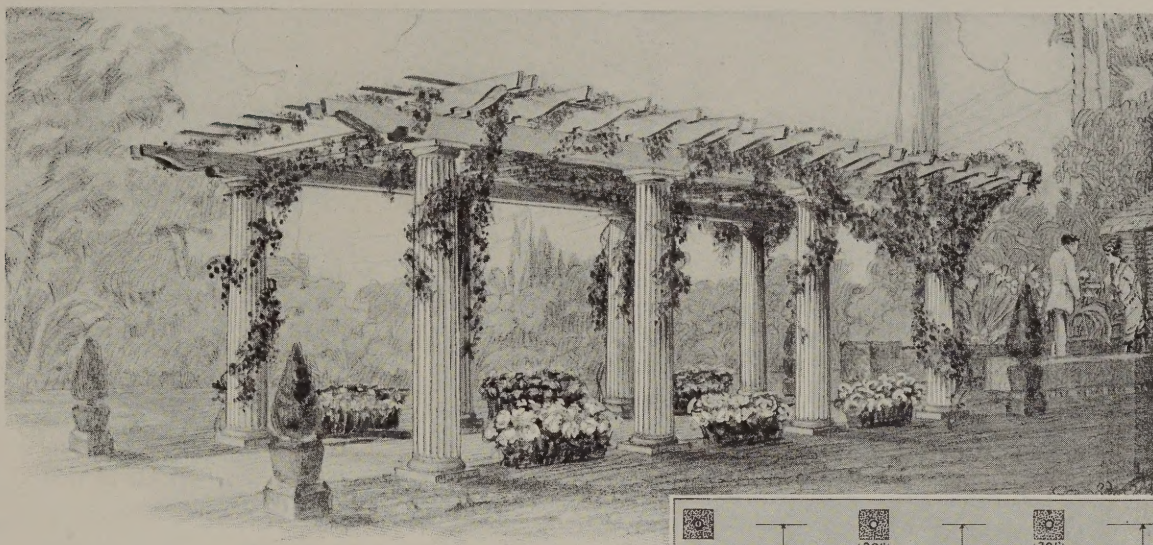
Foundation Plan

Design No. 59

Eight Column Pergola

Our Largest Seller

Specifications: Eight Union Metal Columns, Design 240, Modern Doric—10" Base Diameter, 8" Top Diameter, 7' high. Wood beams 2" x 8", rafters 2" x 6", lath 1" x 2".

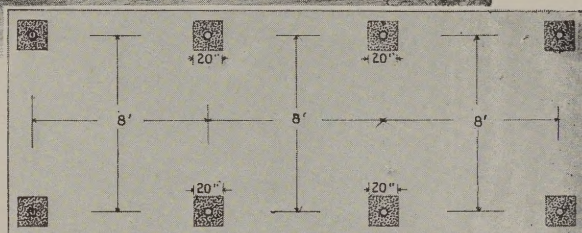


Design No. 60

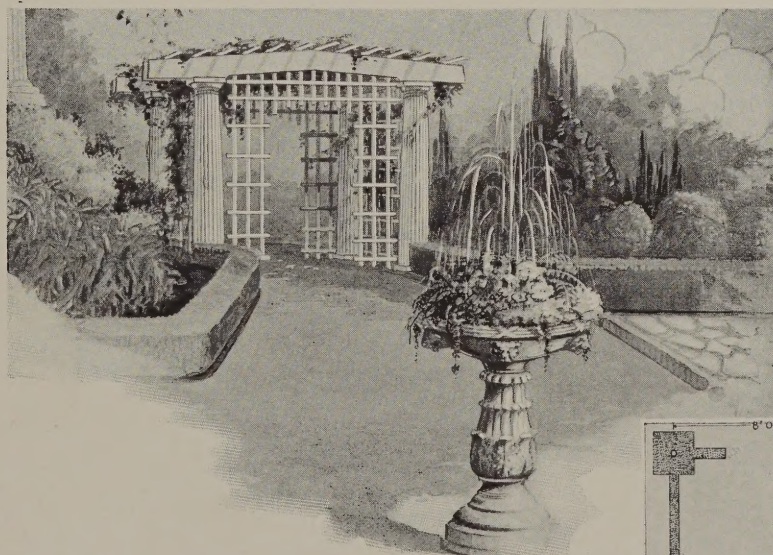
Eight Column Pergola

Slightly larger than No. 59, also a very popular design

Specifications: Eight Union Metal Columns, Design 240—Modern Doric—12" Base Diameter, 10" Top Diameter, 8' high. Wood beams 2" x 8", rafters 2" x 6", lath 1" x 2".



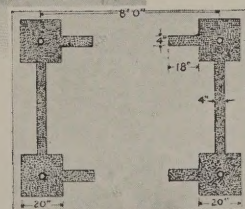
Foundation Plan



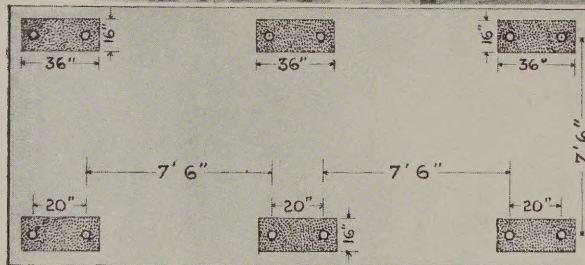
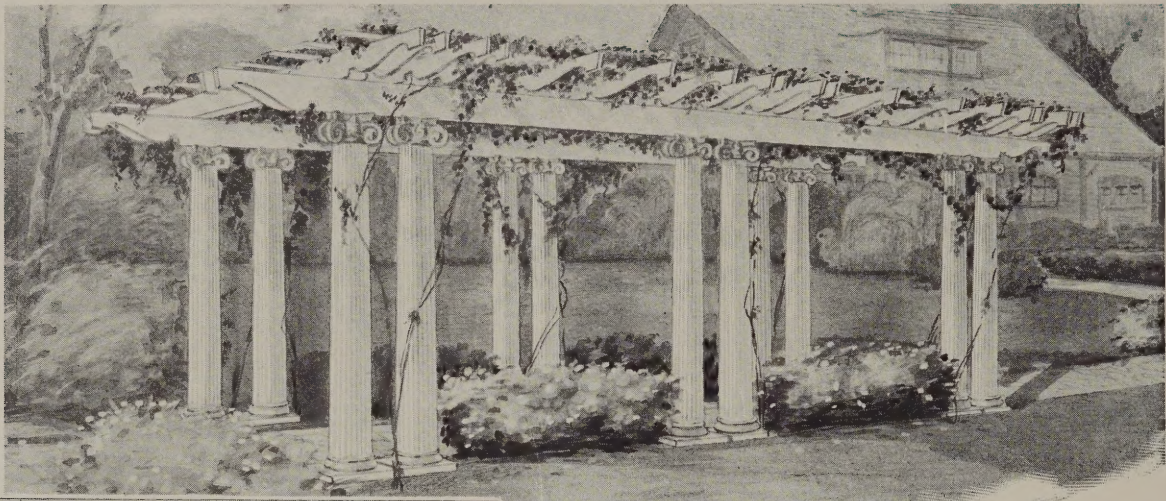
Design No. 61

Four Column Rose Arbor

Specifications: Four Union Metal Columns, Design 700, Greek Doric—14" Base Diameter, 11" Top Diameter, 7' high. Beams heavy 2" timbers. Trellis and lath 1" x 2".



Foundation Plan



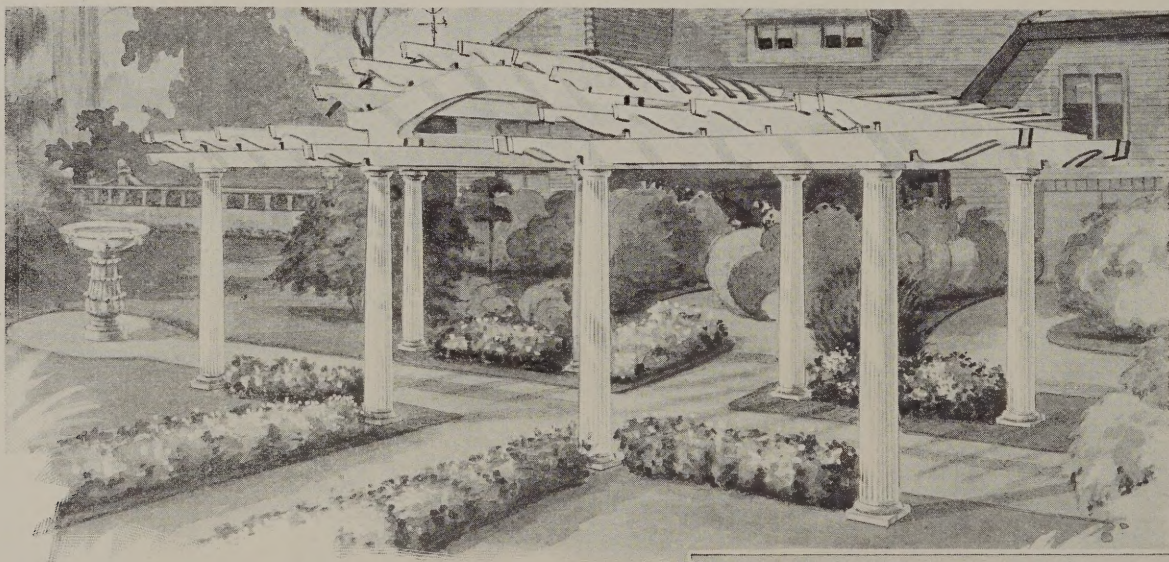
Foundation Plan

Design No. 62

Twelve Column Pergola

A tasteful and generous use of columns grouped in pairs

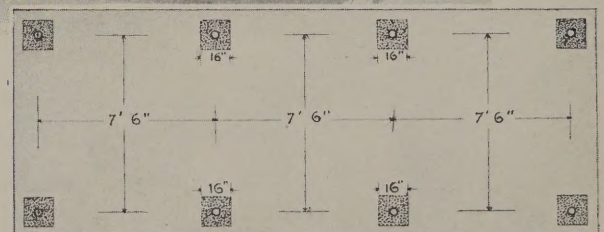
Specifications: Twelve Union Metal Columns, Design 237, Modern Ionic—10" Base Diameter, 8" Top Diameter, 7' 6" high. Wood beams 2" x 8", rafters 2" x 6", lath 1" x 2".



Design No. 63

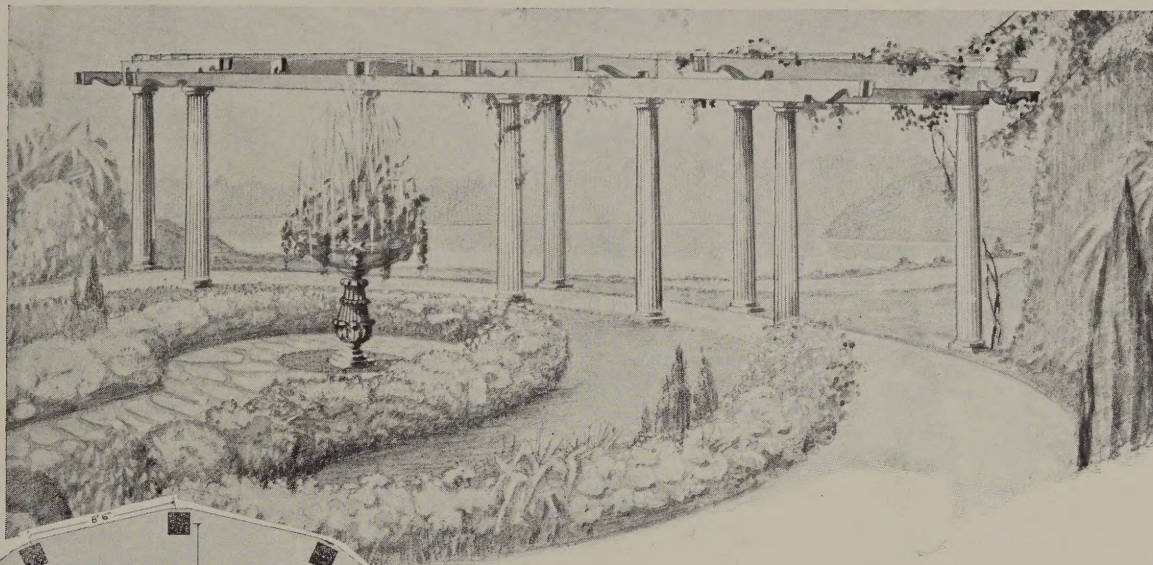
Eight Column Archway Pergola

Specifications: Eight Union Metal Columns, Design 240, Modern Doric—10" Base Diameter, 8" Top Diameter, 7' high. Straight wood beams 2" x 8", archway beams 2" x 10", rafters 2" x 6", lath 1" x 2".



Foundation Plan

FOR BEAUTIFUL PERGOLAS

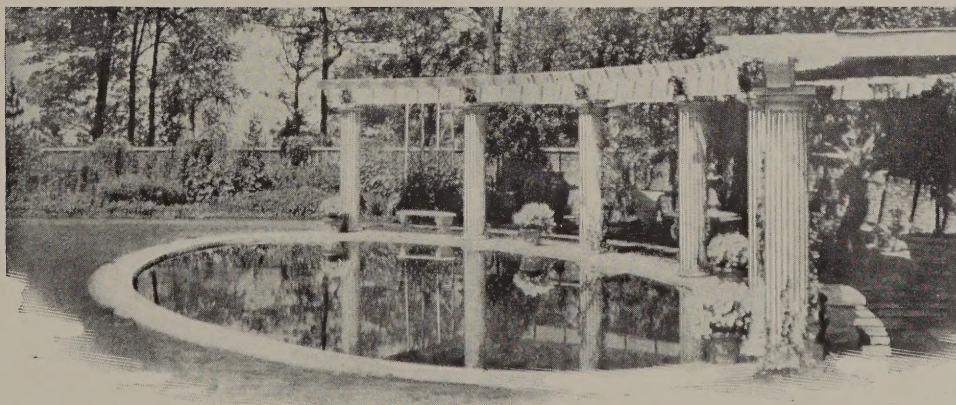


Foundation Plan

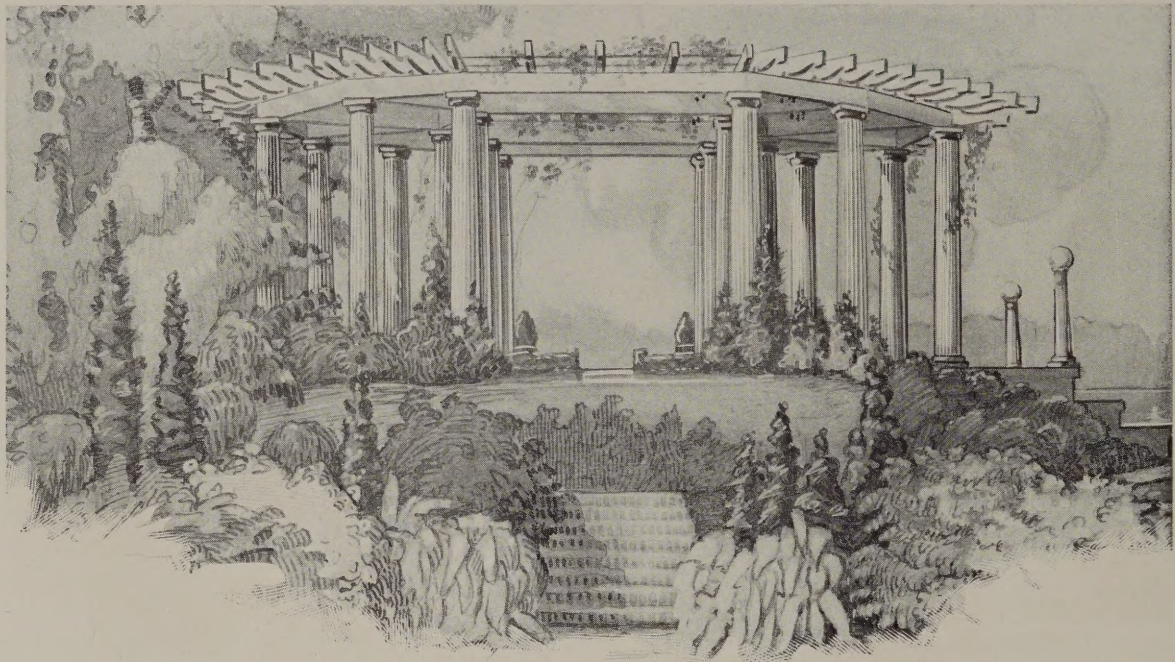
Design No. 64

Ten Column Crescent Shaped Pergola

Specifications: Ten Union Metal Columns, Design 240, Modern Doric—10" Base Diameter, 8" Top Diameter, 7' high. Wood beams 2" x 8", rafters 2" x 6", lath 1" x 2".



To dwell in shades like these is to be blest. Union Metal Crescent Shaped Pergolas particularly lend themselves to garden pool treatments where a complete circular pergola might prove too large or too expensive. How fascinating it is to watch the shadows of these stately white columns reflected in this beautiful lagoon.



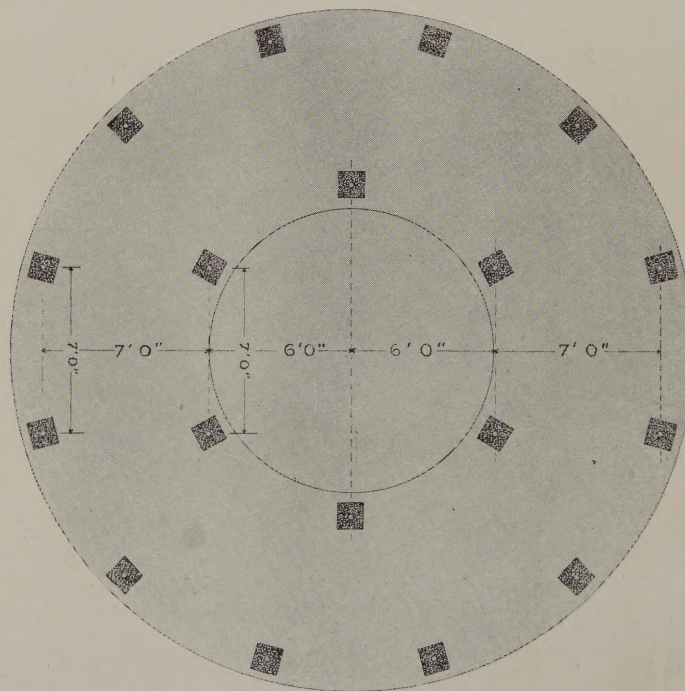
Design No. 65—Eighteen Column Circular Pergola

Specifications: Eighteen Union Metal Columns, Design 240—Modern Doric, 10" base diameter, 8" top diameter, 7' high. Wood beams 2" x 8", rafters 2" x 6"—lath 1" x 2".

Design No. 65-A

Eighteen Column Circular Pergola [with larger columns]

Specifications: Eighteen Union Metal Columns, Design 240, Modern Doric, 12" base diameter, 10" top diameter, 7' high. Wood beams 2" x 8", rafters 2" x 6", lath 1" x 2".



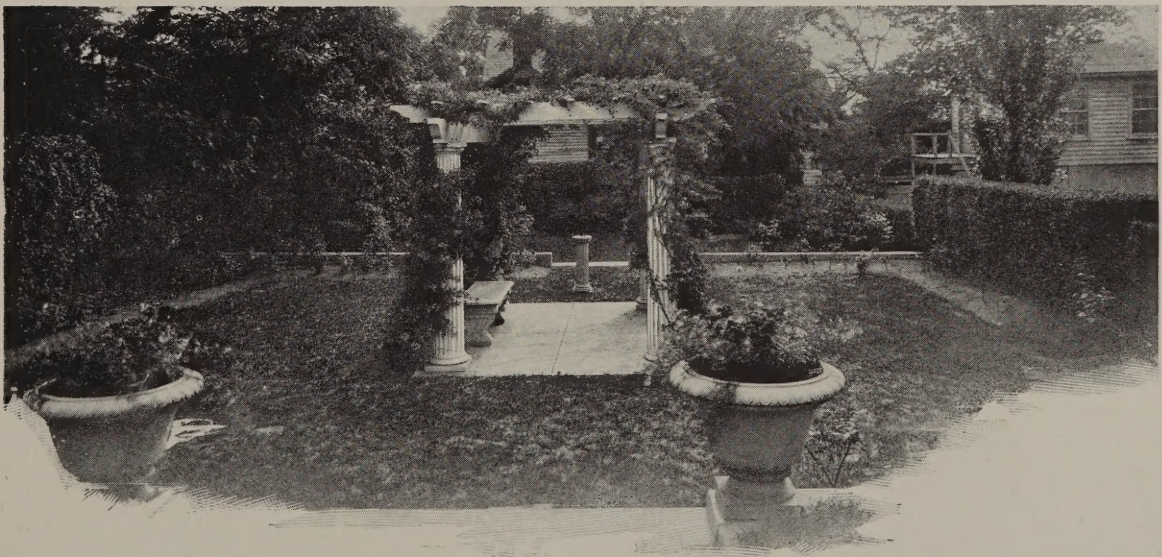
Foundation Plan

FOR BEAUTIFUL PERGOLAS

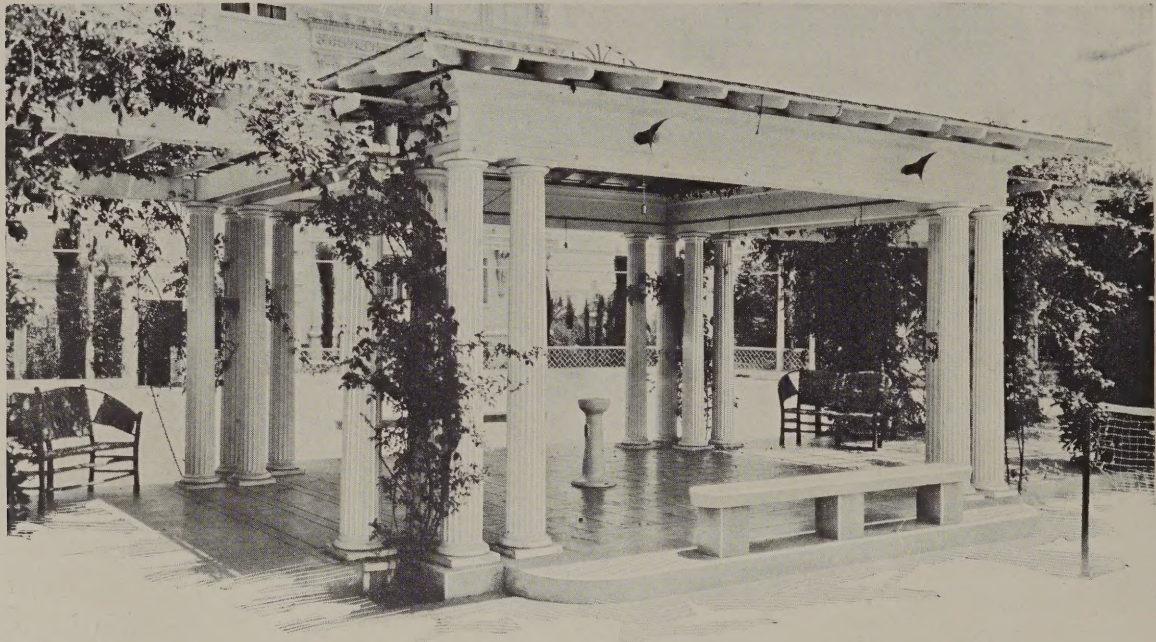
Installations



Union Metal Circular Pergola in the Garden of P. O. Knight, Tampa, Florida.
A. H. Johnson, Architect.



A smaller four column type of Union Metal Pergola that adds charm to the garden of an Old Virginia Plantation.



Tennis Court Pergola on grounds of Garden Court Apartments, Hollywood, California. Frank L. Meline, Architect.

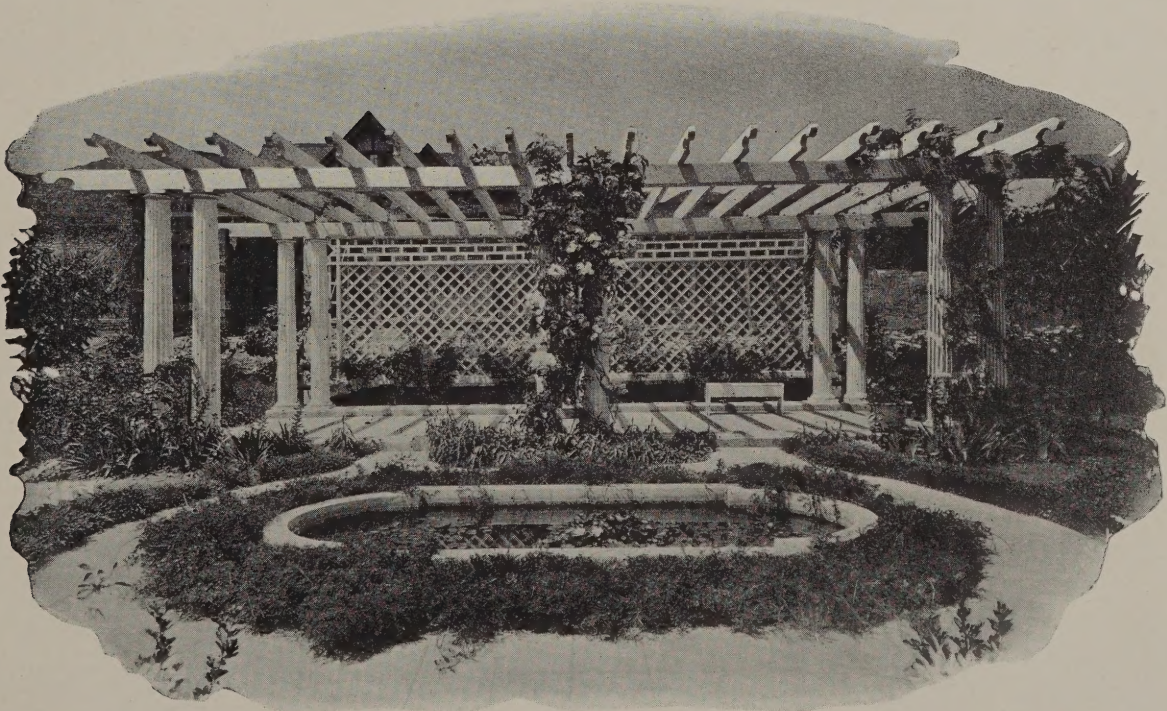


A beautiful Pergola and Fountain at residence of J. F. Mauro, Denver, Colorado. De Boer and Pessman, Landscape Architects. This combination pergola and summer house has as its principal decorative feature twelve Union Metal Columns, Design 240, Modern Doric, 12" Base Diameter, 10" Top Diameter and 8' High.



Union Metal Pergola in garden of S. A. Gerrard, Avondale, Cincinnati, Ohio.
W. A. Natorp Co., Cincinnati, Landscape Gardeners and Engineers.

This statement from the Landscape Architects on the Gerrard job will be of particular interest to anyone contemplating the purchase and installation of a pergola—"Our great trouble in using the wooden posts in the past has been, that when we had really achieved the beautiful effects of flowering vines and roses, the wood posts started to decay at the base, which necessitated partially destroying the vines in order to repair these posts. This condition has been entirely eliminated with the Union Metal Columns. The pergola and other garden features are now clothed in beauty to last indefinitely."



Pergola and Garden of A. W. Williamson, Los Angeles, Cal. Frank L. Meline,
Los Angeles, Architect.



Special Pergolas, Band Stands, Comfort Stations Etc., Planned by Architects and Landscape Engineers

IT IS quite impossible to include in this book many special designs that architects and landscape engineers frequently require for unusual locations and classes of work.

Our designing department is always eager to co-operate with those desiring such special and permanent construction. In these cases, we furnish columns and anchor rods only, leaving the special roof construction to the contractor on the job.

Roof Garden Pergolas

The ordinances of most cities prohibit the use of wood in roof gardens. On account of light weight and fireproof qualities, Union Metal Pergolas are the only ones that can be used practically for this purpose. In such cases, Union Metal Pergolas can be erected

with special steel beams and rafters to comply with regulations.

Union Metal Pergolas Built in Sections

We have occasional calls for pergolas having greater lengths than those listed.

Take for example, Pergola No. 60, Page 43, which is designated as a 3 section, 8 Column Design. This can be lengthened eight feet by the addition of two columns, and superstructure, then becoming a four section, 10 column design. We have had calls for this type of pergola as long as 20 sections.

Rose Screen Pergola No. 55, Page 40, or in fact most of the designs, can be increased to meet varying conditions by the simple addition of sections.

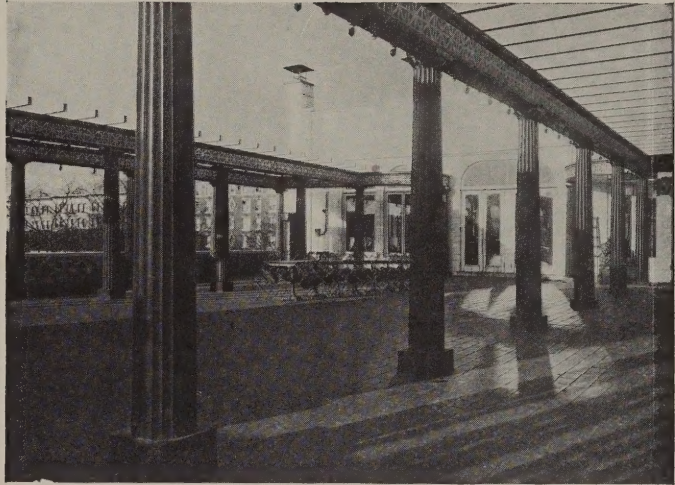
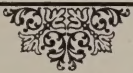


Union Metal Columns used in construction of Municipal Band Stand, Livingston Park, Jackson, Miss. Designed by M. L. Culley, City Engineer.

FOR BEAUTIFUL PERGOLAS



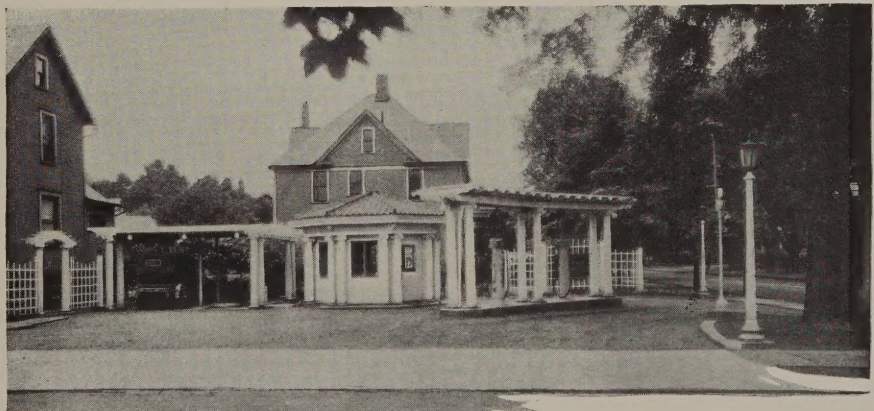
Union Metal Pergola,
Clarendon Roof Garden,
New York City. Henry
Erkins, Architect. On
account of light weight
and fireproof qualities,
Union Metal Pergolas are
the only ones that can be
used practically for this
purpose.



McDonald's Roof Gar-
den, Salt Lake City.
Headlund and Kent,
Architects.



Union Metal Ornamental
Filling Station, Design
No. R241, as installed by
the Lloyd Oil and Grease
Co., in Canton, Ohio.
Note also how Union
Metal Columns are used
in the pump canopy, oil-
ing pit canopy and trellis.
Union Metal Lamp
Standards and General
Electric Novalux Units
supply the station illumi-
nation.





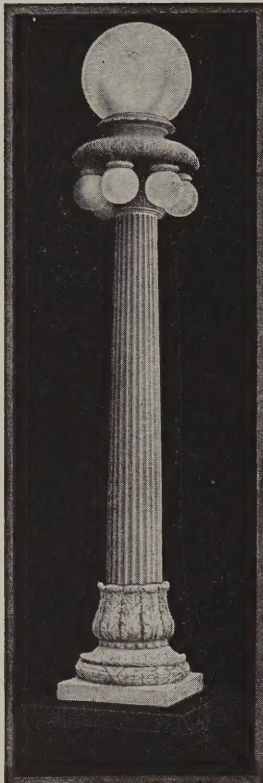
UNION METAL GARDEN FIXTURES

Sun Dials, Bird Baths, Drinking Fountains, Flower Bowls and Exterior Lighting Units

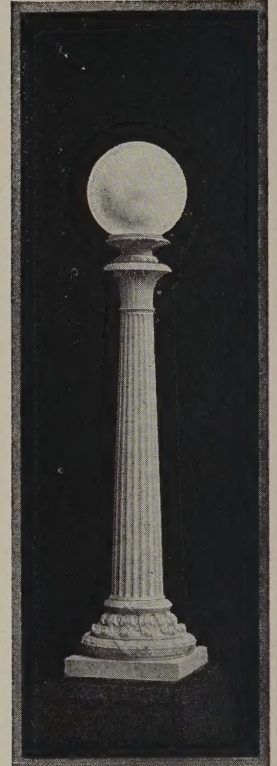
Many grounds lend themselves to still further decoration by the tasteful use of different garden fixtures. Even the least pretentious garden should have its sun dial, and in the larger ones Lighting Standards, Flower Bowls, Bird Baths and Drinking Fountains can be placed here and there in a way to add interest and charm to the grounds. The development of the formal garden, with its pools and its various features of lighting and decoration, is one of the most pleasing tendencies in American landscape architecture.

We are the pioneers and exclusive manufacturers of pressed metal lamp standards and of pressed metal columns, and through co-operation with leading members of the architectural profession, we have developed hundreds of designs, some of which are shown on the following pages.

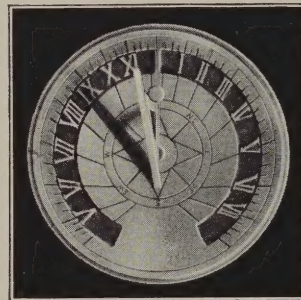
If interested in lighting, you will want these books: No. 54—Exterior Lighting Units for Gardens and Building Entrances or No. 52—Lamp Standards for Streets, Parks and Boulevards.



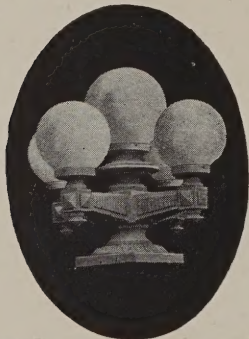
Design 735—7 lights. Base 18" square. Top globe 16" diameter, bottom globes 6" diameter. Standard height overall 8' 1".



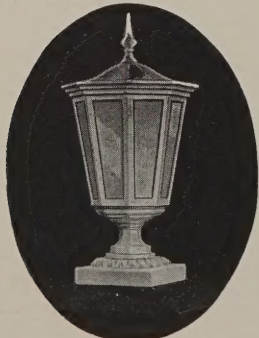
Design 723—1 light. Base 18" square, globe 16" diameter, standard height overall 6' 9".



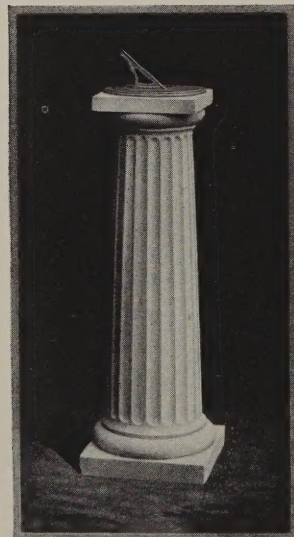
View of Cast Bronze Sun Dial supplied with Designs 833, 834 and 1600, shown on pages 52 and 54.



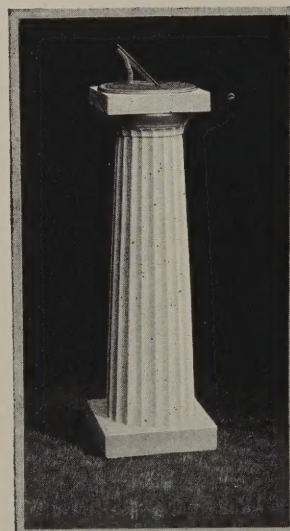
Design 823—3 lights. Design 696—5 lights. Base 11" square, 14" top globe, 10" side globes.



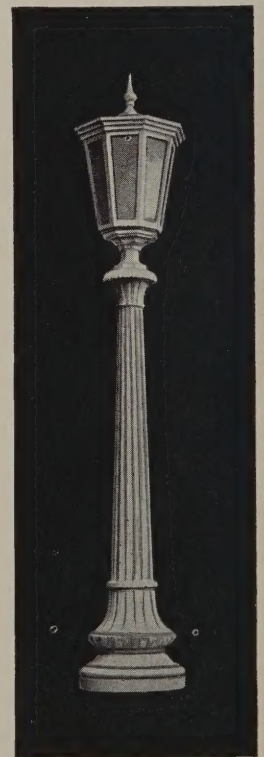
Design 864—Lantern Newel. Base 11" square.



Union Metal Sun Dial Pedestal Design No. 833, Plain Doric, base 13 1/4" square, top 11", bottom diameter 10", top 8", height overall 3' 3".

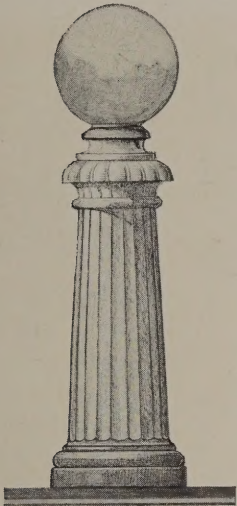


Union Metal Sun Dial Pedestal Design No. 834, Greek Doric, base 12 3/8" square, top 10 3/8", bottom diameter 10", top 7 1/2", height overall 3' 2".

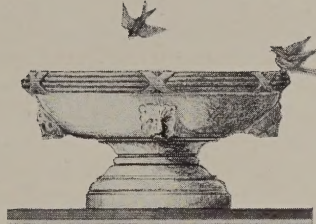


Design 1220—Lantern standard, base diameter ground line 17", standard height overall 8' 3".

FOR BEAUTIFUL PERGOLAS



Gazing Globe Pedestal Design No. 1598—Base 16" square, 12" Steel Shaft tapering to 10", Height to Globe Holder 3' 9".



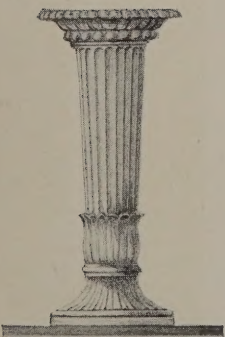
Union Metal Bird Bath Design No. 978. Base Diameter 17", Top Diameter of Bowl 32 3/4", Height 16 3/4".



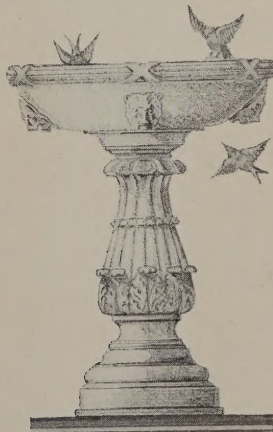
Union Metal Flower Bowl Design No. 971, Base Diameter 18", Top Diameter Bowl 32 3/4", Height 3' 8".



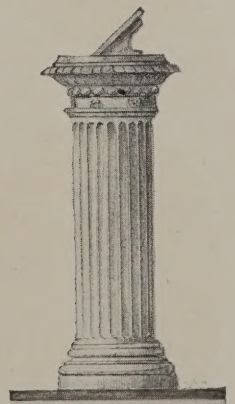
A Garden with a Union Metal Pergola, Sundial, and Union Metal Lamp Standards around the Lily Pond



Union Metal Bird Bath Design No. 1599, Base 15" square, Top Diameter of Bowl 17", Height 3' 3".



Union Metal Bird Bath Design No. 1602, Base Diameter 18", Top Diameter of Bowl 32 3/4", Height 3' 8".



Union Metal Sundial Pedestal Design No. 1600, Base 14" square, Shaft 10" Diameter Bottom and Top, Height 3' 4"



Union Metal Exterior Lighting Units



EXTERIOR Lighting Units are Union Metal Entrance Standards, Wall Brackets, and Exterior Newels, fully listed and described in Catalog No. 54.

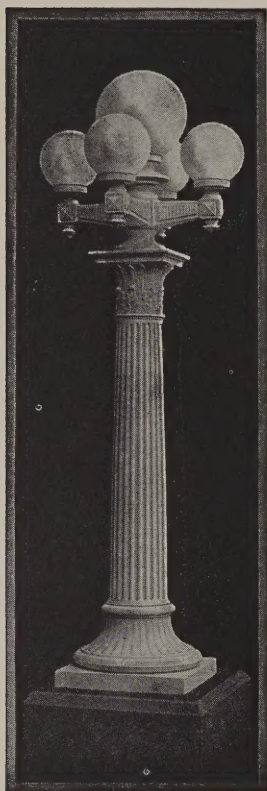
These products are extensively used to light and decorate entrances to churches, schools, libraries, office buildings, apartments, garages, and all types of public buildings.

They are popular for bridge lighting, for installation around gasoline filling stations, and for the lighting of private grounds, parks and estates.

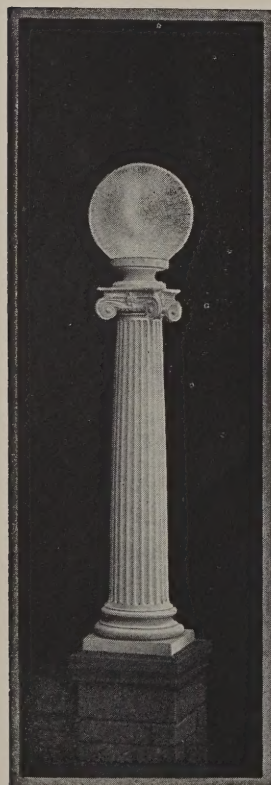
Entrance standard and bracket lighting has become so popular and necessary that on new buildings provision is usually made in the architect's specifications for this material. Likewise, we are supplying a heavy demand from buildings of all kinds already erected that feel an increasing need for better lighting effects.

The Union Metal Manufacturing Company was the pioneer manufacturer of ornamental lighting standards and is today the largest producer and distributor of this class of material in the world.

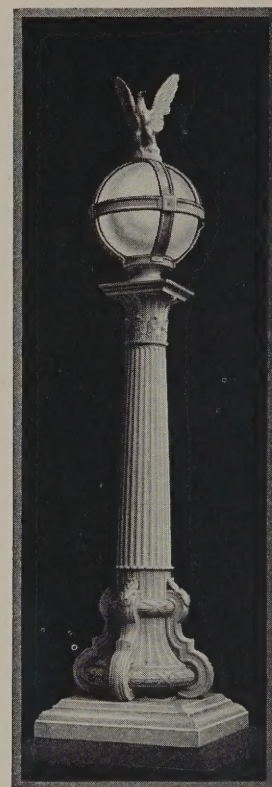
Accompanying photographs represent a few of the many beautiful designs listed in our complete catalog of Union Metal Exterior Lighting Fixtures. Your copy will be sent upon request.



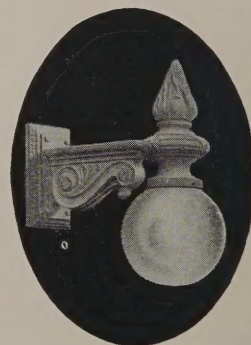
Design 838—3 Lts.
Design 749—5 Lts.



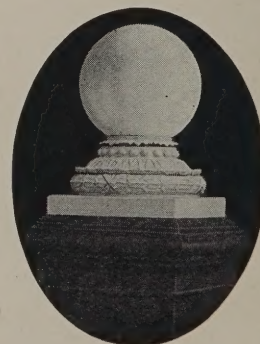
Design 721—9 1/2" Shaft
Design 837—7" Shaft



Design 1174



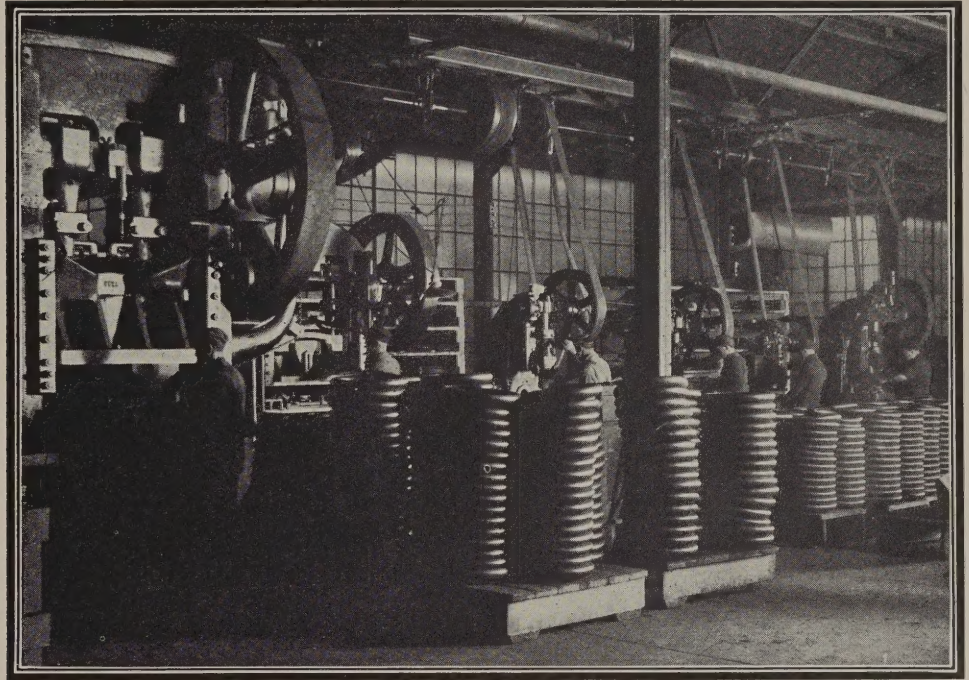
Design 775—1 Lt.



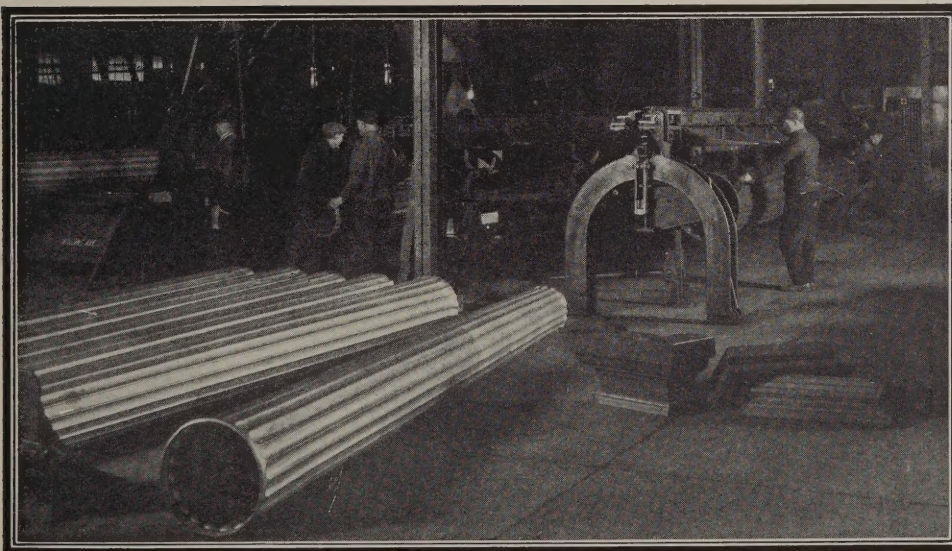
Design 766

FOR BEAUTIFUL ENTRANCES

Where Union Metal Columns Are Made



Pressing Steel Bases and Capitals of Design 240—
8-10-12 and 14 inch Diameters.



Special Machines, 50 feet long, on which flutes are rolled into large columns having diameters of 16 inches up to 42 inches and in lengths up to 35 feet. Large angular press in background, weighing 60,000 pounds, was designed to stop the flutes and press the apophyge at top and bottom of 16 inch to 42 inch diameter columns.

UNION METAL COLUMNS

Patents and Trade Marks

UNION Metal Lamp Standards, Union Metal Columns, and the machines and dies used in their manufacture are covered by numerous patents and pending applications, all of which are owned by The Union Metal Manufacturing Company, Canton, Ohio, U. S. A.

Trade Mark "Union" in various forms and applications is registered in the United States, Canada, and many foreign countries. Any infringements will be promptly and vigorously prosecuted.

UNION METAL LAMP STANDARDS

THE HISTORY OF THE
CITY OF BOSTON

BY SAMUEL JOHNSON

